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No. 43] NEW DELHI, SATURDAY, OCTOBER 26, 1985 (KARTIKA 4, 1907)

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(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III- खण्ड 2

PART III-SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिसें
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Calcutta, the 26th October 1985

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APPLICATION FOR PATENT FILED AT THE HEAD
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,
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The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

20th September, 1985

- 662'Cal|85 Ortho Pharmaceutical Corporation. Substituted Quinazolinones.
- 663'Cal|85 Ortho Pharmaceutical Corporation. Process for the preparation of 8-Halo-5, 6-Dialkoxyquinazoline-2, 4-Diones and their salts.
- 664 Cal|85. Ortho Pharmaceutical Corporation. Process for preparing 5, 6-Dialkoxy-4-Alkyl-2(1H)-Quinazolinones.
- 665|Cal|85. The Tata Iron and Steel Company Limited. Improvement in or relating to a process for producing high purity magnesium carbonate from magnesites/dolomites.
- 666|Cal|85. Borsodi Vegvi Kombinat. Plant growth regulating composition.
- 667|Cal|85. Borsodi Vegvi Kombinat. Dressing composition based on a phosphonic acid monoester salt.

23rd September, 1985

- 668|Cal|85. The Babcock & Wilcox Company. Process heater control.
- 669|Cal|85 (1) Vladimir Ivanovich Khandogin (2) Nikolai Ivanovich Stukovnin. Direct voltage regulator.
- 670|Cal|85. Gosudarstvennyy Sozovoy Institut Po Proektirovaniyu Metalurgicheskikh Zavodov "Ginromez". Apparatus for granulating metallurgical melt.
- 671|Cal|85. Voest Alpine Aktiengesellschaft. Ball Mill.
- 672|Cal|85. Voest-Alpine Aktiengesellschaft. Ball Mill.
- 673'Cal|85. Neste OY. Procedure for precipitating cellulose carbamate.
- 674'Cal|85. Neste OY. Cyclic process for producing alkali solution of cellulose carbamate, precipitating the carbamate and recovering the chemicals.
- 675|Cal|85. Neste OY. Cyclic process for producing alkali solution of cellulose carbamate, precipitating the carbamate and recovering the chemicals.

24th September, 1985

- 676|Cal|85. Combustion Engineering, Inc. Apparatus for fluidizing a particulate material in a conveying gas.
- 677|Cal|85. The Air Preheater Company, Inc. Element basket assembly for heat exchanger.
- 678|Cal|85. K'rin, Schanzlin & Becker Aktiengesellschaft. Gate Valve.

25th September, 1985

- 679|Cal|85. Westinghouse Electric Corporation. Improvements in or relating to improved barrier for quartz crucible for drawing silicon dendritic web.
- 680|Cal|85. Isover Saint-Gobain, "Les Mirosirs". Method and apparatus for producing mineral fibre shells.
- 681|Cal|85. Siemens Aktiengesellschaft. A transducer plate for piezoelectric transducers.
- 682|Cal|85. Kraftwerk Union Aktiengesellschaft. Thermal power-generating plant.

ALTERATION OF DATE

156736. Post dated to 20th July, 1982.

(146|Bom|1982)

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CLASS : 65-B₂.

156729

Int. Cl. : H 01 f 3/02.

THREE-PHASE TRANSFORMER CORE.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. JEEWAN LAL PURI.

Application No. 1193|Cal|82 filed October 13, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A three-phase transformer core having reduced iron core losses, comprising a magnetic core structure having spaced yoke portions and at least three leg portions including two outer leg portions and at least one inner leg portion, said portions being comprised of a plurality of superposed layers

of magnetic laminations, the inner leg portion being composed of layers of similar alloy steel comprised of a regular permeability iron alloy selected from the group consisting of regular grain oriented steel and nonoriented steel, and the yoke portions and the two outer leg portions included layers of similar alloy steel which are comprised of electrical steel of a different alloy steel having a higher permeability than that of the inner leg portion.

Compl. specn. 11 pages.

Drgs. 1 sheet.

CLASS : 153-A & B; 172-G₁, s, g.

156730

Int. Cl. : D 01 g 15/00, 15/14.

METHOD AND DEVICE FOR PRODUCING A UNIFORM FIBRE BAND ON A CARD.

Applicant : TRUETZSCHLER GMBH & CO. KG., OF DUVENSTR. 82-92, D-4050 MONCHENGLADBACH 3, WEST GERMANY.

Inventors : 1. ROLF GUSE, 2. NORBERT TAUBER.

Application No. 1248/Cal/82 filed October 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

A method of producing a uniform silver in a carding machine, in which fibrous material at a downstream part of the carding machine is monitored and deviations from a desired value are measured, a deviation signal is formed from this measurement, a control signal derived from integration of the deviation signal is formed, and the control signal is used to adjust a part of the carding machine up stream of said downstream part, wherein the time constant of the integration is adjusted in dependence on the desired or actual speed of a part of the carding machine.

Compl. Specn. 15 pages.

Drgs. 4 sheets.

CLASS : 32-C & 182-C.

156731

Int. Cl. : C 08 b 19/00; C 12 b 1/00.

PROCESS FOR PRODUCING EXTRACELLULAR POLYSACCHARIDES.

Applicant : HOECHST AKTIENGESSELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. HARTMUT VOELSKOW, 2. MERTEN SCHLINGMANN.

Application No. 1431/Cal/82 filed December 9, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process for the preparation of extracellular polysaccharides having improved properties characterized in that it comprises fermenting a mixed culture containing more than one microorganism at least one of these microorganisms being capable of producing an extracellular polysaccharide in pure culture such as hereinbefore described.

Compl. Specn. 13 pages.

Drgs. Nil.

CLASS : 134-B.

156732

Int. Cl. : B 60 k 17/00.

VEHICLE DRIVE APPARATUS.

Applicant : INDUSTRIES DEVELOPMENT CORPORATION (INTERNATIONAL SERVICES) CO. LTD., OF 32 KIBBUTZ GALUYOT STREET, TEL-AVIV, ISRAEL.

Inventor : 1. MOSHE MILLER.

Application No. 19/Cal/83 filed January 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

Vehicle drive apparatus comprising :

first and second continuously variable transmission components (CVTs);

power transfer means communicating between the first and second CVTs;

Differential means including a sun, a carrier and a ring;

selectable coupling means comprising (a) an optional primary means, (b) an essential first means, and (c) an essential second means, the essential means being operatively defined as follows, namely : (b) first means, operative in a first mode to couple—

1. a rotational energy source and a flywheel to the carrier;
 2. either the ring or the sun to the first CVT;
 3. either the sun or the ring respectively to the second CVT and to the drive wheels of the vehicle;
- (c) second means, operative in a second mode to connect—
1. the flywheel to whichever of the ring or sun is coupled (above) to the second CVT;
 2. either the ring or sun respectively to the second CVT;
 3. the first CVT to the sun or ring respectively; and
 4. the rotational energy source and the carrier to the drive wheels of the vehicle.

Compl. Specn. 27 pages.

Drgs. 18 sheets.

CLASS : 64-B₁.

156733

Int. Cl. : H 01 r 11/00.

A FITTING FOR COUPLING AN ELONGATE BODY TO A SUPPORT.

Applicant : PREFORMED LINE PRODUCTS COMPANY OF 660 BETA DRIVE, CLEVELAND, OHIO 44143, U.S.A.

Inventor : 1. ARISTHEU AMARAL ROSA.

Application No. 227/Cal/83 filed February 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A fitting for coupling an elongate body to a support the fitting being formed of a number of resilient strands twisted in an open helical manner and bent into a 'U' shape, thus having a middle section and two essentially parallel legs, further characterized by the fact that said middle section has a greater amount of twist than the legs so that said middle section appears similar to a rope and is bent/curved to form a pair of coaxial loops (18), one located on either side of said middle section (16) and extending crosswise from it.

Compl. Specn. 5 pages.

Drgs. 4 sheets.

CLASS : 186-E.

156734

Post dated to July 20, 1982.

Int. Cl. : H 04 n 9/00.

Comp. after provisional left October 20, 1983.

APPARATUS FOR PRODUCING SCREEN IMAGE WHICH APPEARS THREE-DIMENSIONAL WHEN VIEWED THROUGH ANAGLYPHIC EYE GLASSES.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims

Applicant : HASSO HOFMANN, OF UBERSEERING 9, 2000 HAMBURG 60, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. ROLF GANSS.

Application No. 332/Cal/83 filed March 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Apparatus for producing screen images which appear three-dimensional when viewed through anaglyphic eye glasses, the apparatus comprising means for processing monoscopic image signals which can be displayed as an image on an image screen, and means for at least selectively producing the image in the form of two partial images representing complementary colour excerpts or the monoscopic image and being offset laterally by a selected partial image distance, characterized in that in a known-per-se circuit in which is provided a set of three basic colour signal paths for each a basic colour signal, delaying means are provided in a first partial set of the signal paths to time-delay by the partial image distance the basic colour signal conducted through the signal path.

Compl. Specn. 27 Pages.

Drgs. 2 sheets.

CLASS : 14-A.

156735

Int. Cl. : H 01 m 3/00.

GLASS FIBRE PAPER SEPARATOR FOR ELECTRO-CHEMICAL CELLS AND AN ELECTROCHEMICAL GLOUCESTERSHIRE, GL54 5BB, ENGLAND.

Applicant : EVANS ADDARD & COMPANY LIMITED, OF POSTLIP MILLS, WINCHCOMBE, CHELTENHAM, GLOUCESTERSHIRE, GL54 5BB, ENGLAND.

Inventor : 1. FRANK HOHN TURNER HARRIS.

Application No. 462/Cal/83 filed April 20, 1983.

Convention dated 20th April, 1982 (\$211419) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A separator suitable for electrochemical cells of the lead-acid recombinant type, comprising a sheet of entangled glass fibres, wherein between 5 and 35% by weight of the fibres have a diameter of less than 1 μ m.

Compl. Specn. 13 pages.

Drgs. Nil.

CLASS : 129 G.

156736

Int. Cl. : B 02 C 18/00.

A SHEET MATERIAL SHREDDING DEVICE.

Applicants : SURESH DEVARAO KOONDAJE, PROPRIETOR OF KUNDAJI ASSOCIATES, OF 8, LAXMIBAI NAGAR, NEW INDUSTRIAL ESTATE, INDORE-452006, MADHYA PRADESH, INDIA.

Inventor : (1) SURESH DEVARAO KOONDAJE & (2) KANHAIYA BAPULAL CARPENTER.

Application No. 146/BOM/1982 filed June 5th 1982.

A sheet material shredding device comprising a cabinet housing a driving means; and a shredding shroud mounted on the said cabinet, the inner end or one end of the said shroud acting as the sheet material feeding inlet and the outer end or other end of the said shroud acting as the shreds outlet, the said shroud housing at least two shredder assemblies and a chute interposed between the said two shredder assemblies, each of said shredder assemblies consisting of two rows of cutters spaced apart by spacers and rotatable in opposite directions, each of said spacers being elliptical shaped, each cutter in each row of cutters of each said shredder assemblies being a disc having teeth along its circumference, part of the circumference of each of said cutters protruding the respective spacers, protruding part of the circumference of each cutter in one row of cutters of each said shredder assemblies, adjoining and overlapping the protruding part of the circumference of each corresponding cutter in the other row of cutters of each said shredder assemblies, one of said shredder assemblies being disposed in the proximity of the said inlet such that the sheet material being fed through the said inlet is pulled into and cut or shredded by said one shredder assembly, the surface of said cabinet in the proximity of said inlet being adapted to facilitate feeding of the sheet material into said one shredder assembly, the bottom surface of said chute being at a lower level than the centre line of overlapping between the protruding part of the circumference of the two rows of cutters of said one shredder assembly, the inner end bottom surface of said chute and the said one shredder assembly being such that the shreds emerging from said one shredder assembly fall down into the said inner end bottom surface of said chute, said chute housing a rotatable brush assembly having a plurality of brushes such that while being rotated said brushes disturb and push or sweep down the shreds from the inner end of said chute onto the other of said shredder assemblies supported below the outer end of said chute, the shreds emerging from said shredder assemblies being discharged from the outer end or other end of said shroud, the said driving means being connected to said shredder assemblies and said brush assembly by known means in known manner in order to drive said shredder assemblies and brush assembly.

Complete Specification 17 pages.

Drgs. 7 sheets.

Prov. specification 11 pages.

Drgs. 5 sheets.

CLASS : 172-B.

156737

Int. Cl. : B 65 h-54/00.

METHOD OF CUTTING MICRONIC SERRATIONS AT THE EDGE OF A BLADE OF A HARDENED MATERIAL SUCH AS FOR SLUB CATCHERS USED IN YARN WINDING MACHINES.

Applicants : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, 1860, P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

Inventor : SHANKERBHAI PUJIRAM PATEL.

Application No. 167/Bom/1982 filed Jun 29, 1982.

Comp. after prov. left Jan 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

3 Claims

A method of cutting micronc serrations at the edge of a blade of a hardened material such as for slub catches used in yarn winding machines, comprising rotating tool having a circular cross section against the edge of the blade, which is

kept stationary, and maintaining a continuous film of a slurry of emery powder suspended in a lubricant, known per se, between the peripheral surface of the tool and the edge of the blade during rotation of the tool, said tool having serrations on its peripheral surface, said serrations corresponding to the desired serrations to be cut at the edge of the blade; and the hardness of the tool material being more than that of the blade.

Complete specification 11 pages.

Drgs. Nil.

Prov. Specification 7 pages.

Drgs. 3 sheets.

CLASS : 73 + 114A.

156738

Int. Cl. : C14b-11|00, 13|00, D06c-29|00.

Title : MICRO-FOAM FINISHER.

Applicants : SLM-MANEKLAL INDUSTRIES LIMITED, SHAFI MANZIL, ASHRAM ROAD, AHMEDABAD-380 009, GUJARAT, INDIA.

Inventor : (1) JANAK NARHARISHANKER BHATT.

Application No. 215|BOM|1982 filed Aug. 25, 1982.

Compl. after Prov. left Nov. 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

10 Claims

A micro-foam for finishing articles, such as textiles, leather, laminates comprising a chamber having a hopper and means for continuously generating and uniformly applying micro-foam along the entire width of the article to be finished, the said means comprising two or more statically balanced propelling blades provided in ball bearings with leak proof mechanical seals and coupled together by a gear chain drive, for agitating the chemical bath containing a mixture of the aqueous solutions of finishing chemicals and the foaming chemicals such as herein described evenly along the entire bottom portion of the chamber, an inlet for compressed air being blown into the said chemical bath, a first set of rollers for feeding the article to be finished into the chamber, doctor-blades for an uniform application of micro-foam on the article within the chamber, a second set of rollers for drawing the finished article out of the chamber, a vacuum duct provided at the mouth of the hopper for absorbing the micro-foam into the article and means comprising a motor with a controlled gear for driving of the propelling blades and the two sets of rollers.

Compl. Specn. 12 pages.

Drgs. 1 sheet.

Prov. Specn. 3 pages.

Drgs. Nil.

Ind. Cl. : 86B.

156739

Int. Cl. : A47C-15|00.

Title : IMPROVEMENTS IN OR RELATING TO CHAIR, SOFA, AUTOMOBILE SEAT AND THE LIKE.

Applicant & Inventor : ARVIND VASUDEO JOSHI, 13, MILL OFFICERS' COLONY, ASHRAM ROAD, AHMEDABAD-380 009, GUJARAT, INDIA.

Application No. 223/BOM/1983 filed on Sept. 4, 1982.

Complete after Provisional filed on Nov. 1st 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims

Improved chair, sofa, automobile seat and the like comprising an outer frame made of metal tubepipe and having the contour corresponding to the outer contour of the seat and back of the said chair, sofa, automobile seat and the like, a

multiple of spring wires bent concave to have a large radius welded to the said outer frame at junction of the seat and back rest, a single spring wire bent concave to have a large radius welded at desired intervals to the said outer frame, a mesh type flexible membrane consisting of helical springs with hooks which are hooked to the spring wires fixed between the said multiple of spring wires and the said single spring wire and also to the said outer frame on its inner side to give sufficient tension in it, the said single spring wire facilitating as a stopper to avoid the over shooting of the said mesh type flexible membrane.

Prov. Specn. 4 pages.

Drgs. Nil.

Comp. Specn. 9 pages.

Drgs. 2 sheets.

IND. CL. : 51-D.

156740

Int. Cl. : B 26 b-21|16.

Title : AN IMPROVED SAFETY RAZOR HAVING TWIN SINGLE EDGED BLADE CARTRIDGE.

Applicant : VIDYUT METALLICS LTD., BOMBAY AGRA ROAD, P.O. WAGLE INDUSTRIAL ESTATE, THANE-400 604.

Inventors : (1) SAMBASIVAN RAVINDRAN, (2) ANTHONY GEORGE TONE.

Application No. 235|Bom|1982 filed on Sep. 13, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

4 Claims

An improved safety razor having twin single edged blade cartridge comprising a handle made of a hard plastics material formed with a bent portion on the top and with a groove extending the major part of its length and the bent portion, a metallic member also having a bent top portion fitted in the groove in the handle and its bent portion, a metallic head member secured substantially at right angles to the bent portion of the metallic member through two spaced projecting lugs and a blade cartridge having two single edged blades superimposed one above the other and spaced by a spacer adapted to be slidably fitted in the said head member, the head member being channel shaped and having a web portion and flanges substantially at right angles to the web portion, the free ends of the flanges being bent outwardly at right angles, the web of the channel shaped member being formed with two holes for receiving the lugs on the bent portion of the metallic member of the handle, the blade cartridge comprising a top body part or cap member, a bottom member and one spacer member sandwiched between two single edged blades all firmly secured together, the cap member of the said cartridge having pins formed integral therewith and extending from its inner side passing through aligned holes in the said blades and spacer member and press fitted in blind holes in the upper face of the bottom member, the cap member of the cartridge also having two arms extending to the front from its ends, the lower faces of the arms having two steps with flat faces formed thereon, the rear step seating the upper blade, the lower blade and the spacer member and the ends of the arms being formed with downwardly extending latches adapted to be received in grooves formed at the ends of the bottom member characterised in that in order to ensure a better locking of the blades and spacer member, there is provided notches at the outer sides of the arms of the cap member and corresponding projections in the bottom member with the ends of the two blades, and the spacer/separator having suitable notches therein.

Compl. Specn. 13 pages.

Drgs. 1 sheet.

CLASS : 50C.

156741

Int. Cl. : F25c-7|00.

Title : IMPROVED ELECTRIC ICE CREAM MAKING MACHINE.

Applicant & Inventor : RAVI KUMAR GOEL, 199, PRINCESS STREET, BOMBAY-400 002, INDIA.

Application No. 255/BOM/1982 filed on Sept. 24, 1982.

Complete after Prov. left Dec 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims

An improved electric ice cream making machine which essentially consists of two containers, the inner container and the outer container, the inner container being placed inside the outer container, the space between the two containers being filled with ice, a pedal having two or more baffles longitudinally fixed to its stem, is provided in the inner container, which is provided with a cover having a hole in its centre to allow the stem of the pedal to pass through it characterised in that the inner container is adapted to be rotated by means of an electric motor through a mechanism while the pedal provided inside the inner container remains stationary.

Compl. Specn. 13 pages.

Drgs. 1 sheet.

Prov. Specn. 3 pages.

Drgs. Nil.

CLASS : 195-D.

156742

Int. Cl. F 16 K-51/00.

AN IMPROVED ANTI CORROSIVE FOOT-VALVE.

Applicant & Inventor : JASWANTRAI PARMANAND JOSHI, C/O. ENGINEERS COMBINE, 18, BHARAT NIVAS, BAPUBHAI VASHI ROAD, VILE PARLE (WEST), BOMBAY-400 056, INDIA.

Application No. 270/Bom/1982 filed Oct. 14, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims

An improved anti corrosive foot valve for use in the solution line of a pump for pumping corrosive and chemically active liquids, comprising a valve body attached to a strainer at the bottom, the strainer having a number of intake holes on its sides, the valve body containing inside it a flange shaped valve having a vertical spindle which is vertically movable through guides, the valve resting on a machined valve seat, the valve body, the strainer, the valve and the spindle being made of polypropylene material, characterised in that the said flange shaped polypropylene valve has embedded within it a steel ballast plate to make the valve heavier than the corrosive or chemically active pumping liquid so as to prevent the said valve from floating in the said liquid within the valve body.

Compl. Specn. 5 pages.

Drgs. 1 sheet.

IND. CL. : 168-B.

156743

Int. Cl. : G06 K-11/00.

Title : A GRAPH PANEL.

Applicant & Inventor : JEHANGIR CAWAS MODY, AN INDIAN NATIONAL, TRADING AS C. J. INDUSTRIES, HAMPTON COURT, NATHALAL PAREKH MARG, CITY OF BOMBAY-400 005, INDIA.

Application No. 292/Bom/82 filed on Oct. 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

12 Claims

A graph panel comprising a frame and a backing sheet or board carrying a graph grid mounted on the front side of the said board, the sheet or board having slits formed at the top and the bottom sides of the graph grid and parallel to the length thereof, a top roller assembly and a bottom roller assembly, each such assembly comprising a plurality of freely rotatable rollers mounted on shafts or pins provided in one or more rows on a carrier strip and mounted on the rear side of the said graph grid in the said slits and a plurality of end-

less tapes, wires or cords trained around the rollers of the roller assemblies and extending along the front of the graph grid through the said slits, a portion of each such tape, wire or cord, being coloured differently and the remaining portion of the said tape, wire or cord being transparent or of the same colour as that of the backing sheet or board.

Compl. Specn. 7 pages.

Drgs. 4 sheets.

IND. CL. : 160 C.

156744

Int. Cl. : A 01 b 3/36 | A 01d 90/00.

Title : A MULTIPURPOSE MECHANISED PLOUGHING CART.

Applicant : BHANDARI BALWEERCHAND PRATAPCHAND MEMORIAL RESEARCH FOUNDATION (REGISTERED UNDER SOCIETIES REGISTRATION ACT, 1860) OF BLITZ BUILDING, 1ST FLOOR, 17 CAWASJI PATEL STREET, FORT, BOMBAY-400 001, INDIA.

Inventor : RAVINDRAKUMAR BHANDARI.

Application No. 293/Bom/82 filed on Oct. 26, 1982.

Compl. after Prov. left on Oct. 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

7 Claims

A multipurpose mechanised ploughing cart comprising;

a chassis mounted on four wheels at four corners of which the front pair is the steering wheels and one among the rear pair being the driving wheel;

the driving power being generated by means of a single speed diesel engine mounted on the chassis near the rear end;

a substantially large box type wooden seed tray mounted on the chassis covering its front area and two wooden seating platforms mounted by means of brackets along the two longitudinal sides of the tray;

a hook and an attachment bar fitted at the rear end of the chassis;

a driver seating arrangement provided on the chassis by the side of the engine wherein are situated the steering, gear changing lever, accelerator, clutch and brake pedals;

positive power transmission system from the engine to driving wheel with braking means;

power driving means from the engine for the use of other external activities when the cart is being not in use;

steering system with front axle, suspension means for the drive of the cart of uneven ground.

Prov. Specn. 4 pages.

Drgs. Nil.

Compl. Specn. 10 pages.

Drgs. 5 sheets.

IND. CLASS : 101 F + H.

156745

Int. Cl. : E 02b-7/44.

Title : AN AUTOMATIC TILTING GATE.

Applicant & Inventor : PRABHAKAR DAMODAR GODBOLE, 2/B, BUTY PLOTS, DHARAMPETH, NAGPUR, MAHARASHTRA, INDIA, AN INDIAN CITIZEN.

Application No. 301/Bom/1982 filed on 8 Nov. 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims

An automatic tilting gate for use on irrigation and water supply projects to maintain a constant desired upstream water level comprising an aerofoil sectioned gate leaf having its greater thickness towards the bottom, to give a stream line flow, the said gate leaf having a solid or cellular construction to provide an overall relative density of the gate leaf within arrange of 1.05 to 1.2 and to locate the centre of gravity and the centre of buoyancy at the same point under fully submerged condition; the said gate leaf rocking over one or more fulcrum assemblies each of which is mounted over a trunnion girder fixed into the supporting structure.

Compl. Specn. 12 pages.

Drgs. 4 sheets.

IND. CL. : 172 A.

156746

Int. Cl. : B 65 h-54/00.

Title : HOLDER FOR A BOBBIN TUBE OF AN OPEN ENDED TEXTILE SPOOL.

Applicant : W. SCHLAFHORST & CO. A LIMITED PARTNERSHIP REGISTERED UNDER THE LAWS OF FEDERAL REPUBLIC OF GERMANY, OF BLUMENBERGER STRASSE 143/145 4050 MONCHENGLADBACH, 1. FEDERAL REPUBLIC OF GERMANY.

Inventors : WILHELM KUPPER.

Application No. 305/Bom/1982 filed on Nov. 11, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

7 Claims

Holder for a bobbin tube of an open-ended textile spool, comprising a traverse arm being connected to a reel frame and having an upper surface for supporting a bobbin tube thereon, said traverse arm having a forward end, as seen in loading direction of the bobbin tube, a projection disposed on said forward end preventing the bobbin tube from sliding off said traverse arm and bearing against a front end face of the bobbin tube disposed in vicinity of said forward end of said traverse arm, and a pressure device being powered by a tension spring for loading the bobbin tube with an additional force at a given point.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

Ind. CL. : 104 I.

156747

Int. Cl. : B 28 d 1/32.

Title : APPARATUS FOR MANUFACTURING PRE-PREGMICA SHEETS.

Applicants : NIPPON RIKI KOGYOSHO CO., LTD., A CORPORATION DULY ORGANISED AND EXISTING UNDER THE LAWS OF JAPAN, LOCATED AT 20-6, OHI 1-CHOME SHINAGAWAKU, TOKYO, 140 JAPAN.

Inventors : KAZUO OHKURI (2) SADAMIKI HYAKUTAKE, (3) SHOHJI OHTA (4) SIRO OKURI (5) KUNIHARU OGAWA.

Application No. 32/Bom/1982 filed on Nov. 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims

An apparatus for manufacturing prepreg mica sheets, comprising : a water tank having an arcuated recess at its bottom center, and first and second relatively broad spaces at its upper opposing sides; a rotatable cylindrical net which is fitted in said arcuated recess of said water tank and having an upper portion located above a water level therein; a water barrier partition

formed along an outer surface of said cylindrical net to extend from a bottom surface portion thereof to an exposed surface portion above the water level; water supply means for supplying water and flake mica to said first space which is located in the vicinity of said water supply means; a water over flow pipe which is disposed in the vicinity of said second space at the opposite side of said water supply means; in said water tank; a narrow arcuated passageway defined by a wall of said water barrier partition, the outer surface of said cylindrical net, and an inner surface of said arcuated recess so as to allow said first and second spaces to communicate with each other; means for rotating said cylindrical net; a belt conveyor mechanism disposed above and brought into contact with said cylindrical net so as to pick up the flake mica attached to the outer surface of said cylindrical net and to convey the flake mica to a subsequent process; first drying means for receiving and drying a flake mica layer conveyed by said belt conveyor means; a mechanism for impregnating the flake mica layer dried by said first drying means with an adhesive; and second drying means for drying the flake mica layer impregnated with the adhesive.

Compl. Specn. 14 pages.

Drgs. 1 sheet.

Ind. CL. : 49H+97C.

156748

Int. Cl. : A47j—27/57, F24h—1/00

Title : AN IMPROVED APPARATUS FOR CONTINUOUS AND IMMEDIATE SUPPLY OF HOT WATER AND MILK.

Applicant : SUDHIR MALHOTRA, AN INDIAN NATIONAL OF 74 SNEH SADAN OPP. COLABA POST OFFICE, BOMBAY-400 005, MAHARASHTRA INDIA.

Application No. : 324/BOM/1982 filed on Nov. 30, 1982.
Patent of Addition to Indian Patent Application No. 304/BOM/1981 (155490).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

3 Claims

An improved apparatus for continuous and immediate supply of hot water and milk comprising an inner vessel for containing water which is housed inside a large outer vessel and the space in between the outer vessel and inner vessel is packed with heat insulating material, the said inner vessel is provided with a outlet tube near its bottom which projects out through the outer vessel and fitted with a tap; an immersion heater mounted inside the inner vessel at its bottom which is electrically operated through a thermostat switch, a thermostat is fitted inside the inner vessel by its side, the inner vessel being covered at the top by means of a lid which has an opening at the centre and on this lid is fitted a bottle support to hold the neck of an inverted glass bottle made of heat proof glass or other material, characterised in that the said glass bottle which is invertedly mounted over the device is provided with a bent outlet pipe from its lid and the pipe is fitted with a tap, the said glass bottle is being used for storing milk which is being heated by the steam from the inner vessel wherein the lid of the inner vessel is provided with a central hole for the flow of the steam.

Comp. Specn. 8 pages, Drgs. 3 sheets.

CLASS : 196C

156749

Int. Cl. : F24f—7/00, 13/00

Title : AN AUTOMATIC ELECTRICALLY OR ELECTRONICALLY OPERATED MEDICAL VENTILATOR.

Applicants & Inventor : DR. GIRISH VINAYAK VAZE, GIRISH 18/1 TARABAI PARK, KOLHAPUR-416 003, MAHARASHTRA, INDIA.

Application No. 32/BOM/1983 filed on Feb 05, 1983.
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims

An automatic electrically/electronically operated medical ventilator for use by medical profession for assisting breathing cycle of patient comprises in combination :

- (i) a casing housing the components of the ventilator,
- (ii) a bellow carrying a helical spring and forming an airtight and leakproof cover for a diaphragm of change-over valve controlling inspiratory/expiratory cycle of the ventilator wherein one end of said bellow being connected to a rack fitted with an interceptor plate/bracket and driven by an electric motor through a pinion engaging said rack.
- (iii) two photo-switches, one stationary and the other movably mounted on a lead screw operated by a knob, said fixed switch and said movable switch being actuated by said interceptor plate/bracket for controlling the 'OFF—ON' switching sequence of said electric motor,
- (iv) connection tube for connecting the said bellow to anesthetic machine,
- (v) outlet/inlet tube for connecting the said bellow to oxygen cylinder and oxygen mask,
- (vi) a diaphragm for operating change-over valve during inspiratory/expiratory cycle of the ventilator,
- (vii) a graduation scale or dial connected to said movable photo-switch bracket for indicating the tidal volume (inspiratory/expiratory air volume) handled by the medical ventilator, and
- (viii) a stop means having a coil spring or hydraulic pump or foam rubber buffer mounted on said switch bracket on lead screw, to absorb shocks from said rack when it strikes against said stop at the end of expiratory cycle and said movable switch is switched 'ON' to initiate the inspiratory cycle whereby said bellow is compressed by said pinion working in said rack,

the arrangement being such that during inspiratory cycle said movable switch initiates the switching 'ON' of said electric motor whereby said bellow is compressed by pinion working in said rack and when said interceptor plate intercepts the said fixed photo-switch, said motor is switched 'OFF' and said compressed bellow is extended to its original decompressed position by the spring pressure exerted on said bellow by said helical coil spring and in like manner the expiratory cycle for the patient assisted by the medical ventilator is repeated.

Comp-Specn. 10 pages, Drgs. 1 sheet.

CLASS : 390.

156750

Int. Cl. : C 01 33/26, 33/32.

A PROCESS FOR PREPARING A CRYSTALLINE HIGH SILICA ALUMINOSILICATE ZEOLITES IDENTIFIED AS 'HSZ-105', A MEMBER OF 'HSZ' FAMILY OF ZEOLITES.

Applicant : THE ASSOCIATED CEMENT COMPANIES LIMITED, AN INDIAN COMPANY DULY REGISTERED AND INCORPORATED UNDER THE COMPANIES ACT, 1956 AND HAVING ITS REGISTERED OFFICE AT CEMENT HOUSE, 121 MAHARSHI KARVE ROAD, BOMBAY-400 020, INDIA.

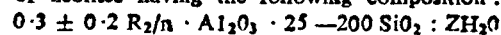
Inventors: (1) BALBIR KRISHNAN GUPTARISHI, (2) SURESH VASANT KARKHANIS, (3) MAHADEV ANANT PUROHIT, AND (4) ARVIND VINAYAK DEO.

Application No. 33/Bom/1983 filed on February 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

11 Claims

A process for preparing a crystalline high silica alumine silicate zeolites identified as 'HSZ-105' a member of 'HSZ' family of zeolites having the following composition :



where R is a cation from a group consisting of alkali-metal cations, preferably sodium, n is the valency of said cation and Z is from 5-20, comprising the steps of :

- (i) preparing a reaction mixture by mixing aqueous solution of at least a source of silica, a source of alumina, alkalimetal cations and ethylenediamine (EDA) having the following molar composition :

SiO ₂ /Al ₂ O ₃	20.0	—	200.0	moles
Na ₂ O/SiO ₂	0.25	—	0.4	moles
(Na ₂ O + EDA)/SiO ₂	0.1	—	3.0	moles
N ₂ O(Na ₂ O + EDA)	30.0	—	200.0	moles

maintained at 10.4 to 11.0 pH adjusted by the addition of sulphuric acid and heated in a stirred or non-stirred mild steel or stainless steel vessel or autoclave;

- (ii) continuing the said reaction of step (i) by controlling the temperature, time and reaction parameters depending upon the temperature and relative concentration of reactants till the resulting product is well crystallised;

- (iii) collecting the resulting product of step (ii) on filter and washing it with water to a 9.5 to 10.0 pH and the resulting product on drying is a well crystallised high silica alumino-silicate zeolite herein identified as 'HSZ-105' having soda content varying from 0.1 to 0.2%.

Comp. specn. 26 pages.

Drg. Nil.

CLASS : 107B

156751

Int. Cl. : F 02 b—15/00; 17/00.

CARBURETTED COMPRESSION IGNITION TYPE INTERNAL COMBUSTION ENGINES.

Applicants & Inventors : VISWANATH DATTATREYA HUKERIKAR OF SUKHADIA BHUVAN, DAKOR (GUJARAT STATE) INDIA, AND MARAZBAN RUSTOMJI PAKHIWALLA OF 38-E, JERRAI BAUG, BOMBAY-400 027 (MAHARASHTRA, INDIA).

Application No. 38/Bom/1983 filed February 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

2 Claims

A "Carburetted Compression Ignition Engine" comprising a compression ignition engine in which the fuel pump and injector are replaced by a Carburettor and to which is fitted an auxiliary cylinder in which a rotating swash plate operated piston reciprocates the said swash plate being driven at half the speed of the crank shaft by a set of gears, the profile of the swash plate being such as to make the auxiliary piston to give a compression ratio insufficient for auto-ignition of the swash plate being such as to make the auxiliary piston is at its top dead centre position during the engine's compression stroke and to make the auxiliary piston to give a compression ratio high enough to cause the auto-ignition of the carburetted fuel just after the end of the compression stroke in the main cylinder.

Compl. Specn. 11 pages.

Drgs. 6 sheets.

CLASS : 133 A

156752

Int. Cl. : H 02 p 1/00.

A STARTER OPERATED MOTOR RESTARTING ELECTRONIC DEVICE AND A STARTER OPERATED MOTOR HAVING THE SAME.

Applicants : JARSEN & TOURRO LIMITED, I & T HOUSE, BALLARD ESTATE, BOMBAY-400 038 INDIA.

Inventors : (1) SRINIVAS JAYA CHANDRAN, (2) MAHESH MADHUSUDHAN SANZGIRI & (3) PRAVIN PRABHAKAR DESHPANDE.

Application No. 40/Bom/1983 filed February 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

15 Claims

An electronic device which senses voltage dip and restoration in a power supply connected to a starter operated motor, and restarts said motor automatically if voltage is restored within preset intervals of time and becomes inoperative if voltage is unrestored within said preset intervals of time or if said motor is switched off, said device comprising a first voltage transformer connectable across said power supply, a second voltage transformer connectable across the coil of the starter of said motor, a first voltage level processor circuit the input whereof is connected to the output of said first voltage transformer, a second voltage level processor circuit the input whereof is connected to the output of said second voltage transformer, a first combinational logic circuit the inputs whereof are connected to the outputs of said first voltage level processor circuit and said second voltage level processor circuit, a first timer circuit the input whereof is connected to the output of said first combinational logic circuit, a second timer circuit the input whereof is connected to the output of said first combinational logic circuit, the timing duration of said second timer circuit being longer than the timing duration of said first timer circuit, a second combinational logic circuit the inputs whereof are connected to the output of said first voltage level processor circuit and said first timer circuit, a third timer circuit the input whereof is connected to the output of said second combinational logic circuit, a third combinational logic circuit the inputs whereof are connected to the outputs of said first voltage level processor circuit, said second timer circuit, said third timer circuit and said second voltage level processor circuit, a fourth timer circuit the input whereof is connected to the output of said third combinational logic circuit, a start pulse transmitting circuit the input whereof is connected to the output of said fourth timer circuit and the output whereof is connectable to the START or ON push button switch of the starter of said motor, a fourth combinational logic circuit the inputs whereof are connected to the outputs of said fourth timer circuit, said third timer circuit, said second timer circuit and said second voltage level processor circuit, a suicide circuit the input whereof is connected to the output of said fourth combinational logic circuit and a dc supply derived from the windings of said second voltage transformer by rectifying, filtering, regulating and storing the energy, and connected to said first and second voltage level processor circuits, said first, second, third and fourth combinational logic circuits, said first, second, third and fourth timer circuits, said restart pulse transmitting circuit and said suicide circuit

Compl. specn 14 pages.

Drgs. 1 sheet.

CLASS : 62A1 + A2 - 170B.

156753

Int. Cl. : D06I 3/00.

Title : A PHOTOBLEACH SYSTEM.

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165-166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : TIMOTHY DAVID FINCH AND (2) STUART WILLIAM BEAVAN.

Application No. 47/Bom/1983 filed Feb. 15, 1983

U. K. Convention priority date 19th Feb., 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

7 Claims

A photobleach system, which comprises a synergistic mixture of an electron donor and a visible/ultraviolet radiation absorbing compound (chromophore acceptor) which on absorption of said radiation is converted to its excited electronic state (chromophore acceptor), which in turn is capable of

undergoing electron transfer from said electron donor forming a reactive radical anion (chromophore acceptor), wherein said electron donor has a reduction potential E° (donor+donor) < 3.0 eV, and said chromophore acceptor has a reduction potential E° (acceptor/acceptor-) ≤ 0.0 eV and E° (acceptor/acceptor-) ≤ 3.0 eV, the E° (donor+donor) being lower than the E° (acceptor/acceptor-) and wherein preferably the said electron donor on transferring its electron will not be capable of undergoing the reverse reaction.

Compl Specn. 23 pages.

Drgs. 1 sheet.

IND. Cl : 130F, 141F.

156754

Int. Cl. : C22b-7/00.

Title : AN IMPROVED METHOD FOR RECOVERING PRECIOUS METALS FROM IRON BEARING SLAGS CREATED IN THE SMELTING PROCESSES OF COPPER AND NICKEL.

Applicant : OUTOKUMPU OY, A FINNISH JOINT STOCK COMPANY OF TOOLONKATU 4.00000 HELSINKI 10, FINLAND.

Inventors : (1) JUHO MAKINEN (2) KEITH MURDEN AND (3) HEIKKI SAARI.

Application No. 80/Bombay/1983 filed on March 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims

An improved method for recovering precious metals from iron bearing slags created in the smelting processes of copper and nickel, which comprises (i) reducing the iron bearing slags, in order to lower the magnetic content of the slag below 10% by weight by employing coke, at the temperature of 1100 to 1400°C; (ii) after said preliminary reduction of the magnetic, the reduction process is continued by sulphidation, where into the molten slag is added sulphidizing material containing copper and/or iron, the temperature being at range of 1100 to 1400°C, preferably 1200 to 1300°C, so that the composition of the molten slag in solid state falls within the area where the metallized iron bearing molten copper sulphide is in the balance with the metallic copper and the iron base metal alloy; (iii) cooling the metallized molten copper sulphide material in a controlled manner at the temperature range of 1000 to 500°C under a thin layer of coke in order to prevent the formation of iron oxide and ferrites; (iv) separating the precious metals by manners known in the prior art.

Compl. Specn. 30 pages.

Drgs. 4 sheets.

IND. CL. : 69 B.

156755

Int. Cl. : G01 r 25/00.

Title : A SYSTEM FOR PRODUCING A SIGNAL WHEN THE PHASE RELATION BETWEEN TWO COMPOSITE SIGNALS DERIVED VOLTAGE AND CURRENT DETECTED FROM AN ELECTRIC POWER SYSTEM SATISFIES A PREDETERMINED CONDITION.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, A JAPANESE COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN, 2-3 MARU-NOUCHI 2 CHOME, CHIYODA-KU, TOKYO 100, JAPAN.

Inventors : (1) YASUAKI MIYAKE (2) KEIJI ISAHAYA, (3) TERUO NOZAWA (4) TADASHI MATSUZAKI (5) GENZABURO KOTANI (6) MASATOSHI SAKAI.

Application No. 96/Bom/83 filed on March 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

8 Claims

A system for producing a signal when the phase relation between two composite signals derived from voltage and current from an electric power system satisfies a predetermined condition comprising a phase detection circuit for detecting the phase relation between said two composite signals derived from said voltage and current from said electric power system to give out a phase detection signal a waveform detection circuit to give out a signal in response to the resultant difference between the period during which one of said composite signals derived from said voltage or current from said power system remaining in a constant polarity and a predetermined reference period an inhibition circuit to inhibit the output of said phase detection circuit upon the signal output of said waveform detection circuit

Compl Specn 15 pages

Drgs 5 sheets

CLASS · 33 F & 35 F

156756

Int Cl : B 22 c 9/10, F 27 d 1/16

A CORE FOR BLOW FORMING THE LINING OF VESSEL FOR MOLTEN METAL, A LINING METHOD USING SAID CORE AND A LINING COMPOSITION USED IN SAID LINING METHOD

Applicant AIKOH CO LTD OF 139 IKENOHATA 2-CHOME, TAITO-KU TOKYO JAPAN

Inventors 1 MASARU TAKASHIMA, 2 SHIGERU MATSUYAMA 3 YOSHIHIRO HAYASHI 4 HISAJI ITO 5 KOTARO FUJITA 6 KENJI INAI 7 SHOJI TAKEMOTO

Application No 166/Cal/82 filed February 11 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Calcutta

7 Claims

A core for blow-forming the lining of a vessel for molten metal, which core is provided with a main body having blow-in holes and an exhaust port, the side face and the lower faces of said body having the same dimensions and shapes as those of the inside of the lining of said vessel for molten metal, a flange mounted approximately horizontally in the outer direction at the periphery of the upper end of said main body, a plurality of supports which are actuated downwardly from said flange, and airtight and shock absorbers mounted beneath said flange

Compl Specn 16 pages

Drgs 1 sheet

CLASS · 93

156757

Int Cl · B 01 j 2/00

PROCESS FOR PREPARING THERMALLY STABLE AMMONIUM NITRATE-CONTAINING GRANULES AND GRANULES OBTAINED BY THIS PROCESS

Applicant · UNIE VAN KUNSTMESTFABRIEKEN B.V. OF MALIEBAAN 81, UTRECHT THE NETHERLANDS

Inventors 1 STANISLAUS MARTINUS PETRUS MUTSERS 2 CORNELIS HOEK 3 GERARDUS MATHIAS CORNELIS

Application No 697/Cal/82 filed June 17 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Calcutta

12 Claims

Process for preparing thermally stable ammonium nitrate-containing granules of high bulk density suitable for use as fertilizer comprising spraying an ammonium nitrate-containing liquid composition which also contains a stabilization agent into or onto a fluidized bed of ammonium nitrate-containing

seed particles thereby coating the seed particles with successive layers of said liquid composition to form granules at least a portion of which are larger than a predetermined size and discharging the granules formed from the bed this process being characterized in that the liquid composition comprises an ammonium nitrate containing melt to which no calcium nitrate has been added and which includes at most 5% wt water said liquid composition further comprising as a stabilization agent 0.5% wt relative to the quantity of ammonium nitrate of a silica containing material such as hereinbefore exemplified and which is insoluble in and chemically inert to ammonium nitrate and the temperature of said bed being maintained between 95 and 145°C and optionally said ammonium nitrate containing melt contains clay one or more fillers, additives agro chemicals and/or fertilizer components

Compl Specn 14 pages

Drgs Nil

CLASS 93

156758

Int Cl B 01 j 2/00

PROCESS FOR PREPARING THERMALLY STABLE AMMONIUM NITRATE-CONTAINING GRANULES OF HIGH BULK DENSITY AND GRANULES OBTAINED BY THIS PROCESS

Applicant UNIE VAN KUNSTMESTFABRIEKEN B.V. OF MALIEBAAN 81 UTRECHT THE NETHERLANDS

Inventors 1 STANISLAUS MARTINUS PETRUS MUTSERS 2 CORNELIS HOEK, 3 GERARDUS MATHIAS CORNELIS WAGEMANS

Application No 698/Cal/82 filed June 17 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Calcutta

16 Claims

Process for preparing thermally stable ammonium nitrate-containing granules of high bulk density suitable for use as liquid composition which also contains a stabilizing agent into or onto a fluidized bed of ammonium nitrate-containing seed particles which are kept separate from each other, thereby coating the seed particles with successive layers of said liquid composition to form granules, at least a portion of which are larger than a predetermined size and discharging the granules formed from the bed this process being characterized in that the liquid composition is an ammonium nitrate-containing composition containing at most 15% by wt of water 0.3 to 3.5% by wt of calcium nitrate and 0.5 to 5% by wt of a stabilization agent comprising a silica-containing material such as hereinbefore exemplified which is insoluble in and chemically inert to ammonium nitrate the temperature of the fluidized bed being maintained between 95° and 145°C and optionally said ammonium nitrate-containing liquid composition may include one or more fillers trace elements, agrochemicals and/or fertilizer salts

Compl Specn 16 pages

Drgs Nil

CLASS 119F

156759

Int Cl D 03 c 1/00

FEED DEVICE FOR THE PUNCHED PAPER TAPE CARRYING THE CODED FABRIC DESIGN FOR LOOM SHED FORMATION DOBBIES

Applicant FIMTESSILE FABRICA ITALIANA MACCHINARIO TESSILE S.p.A. OF VIA SPIAZZI 52 24028 PONTE NOSSA (BERGAMO) ITALY

Inventor 1 OLIVO FPIS

Application No 921/Cal/82 filed August 5 1982

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta

6 Claims

A feed device for the punched paper tape carrying the coded fabric design for loom shed formation dobbies, comprising a feed roller for the punched paper tape, a spindle carrying said roller, two end supports mounting said spindle drive means to intermittently rotate said spindle, means to disengage said spindle from one of said supports and means to rotate said other support relative to the dobby without interrupting the connection between the drive means and the punched tape roller.

Compl. Specn. 9 pages.

Drgs. 4 sheets.

CLASS : 119-C.

156760

Int. Cl. : D 03 c 5|00.

LOOM DOBBY READING UNIT.

Applicant : FIMTESSILE FABRICA ITALIANA MACCHINARIO TESSILE S.p.A., OF VIA SPIAZZI, 52, 24028 PONTE NOSSA (BERGAMO), ITALY.

Inventor : 1. OLIVO EPIS.

Application No. 922|Cal|82 filed August 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A loom dobby reading unit for forming the shed in looms, comprising a unit for reading the fabric design reproduced in code on punched paper tape having tappets on rockers and a control unit for heald frame lever systems having horizontal needles, said reading unit being structurally isolated from the control unit and adapted to act on the control unit by bearing and thrust contact between said tappets on reading unit rockers and ends of said horizontal needles of the control unit which control the vertical lifting rods for the hooks.

Compl. Specn. 7 pages.

Drgs. 4 sheets.

CLASS : 119-C.

156761

Int. Cl. : D 03 c 5|00.

IMPROVEMENTS IN LOOM DOBBY CONTROL UNITS.

Applicant : FIMTESSILE FABRICA ITALIANA MACCHINARIO TESSILE S.p.A., OF VIA SPIAZZI, 52, 24028 PONTE NOSSA (BERGAMO), ITALY.

Inventor : 1. OLIVO EPIS.

Application No. 923|Cal|82 filed August 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A loom dobby control unit for forming the shed in looms, comprising a reading unit having rockers and tappets for the fabric design which is in coded form on punched paper tape and a control unit having horizontal needles, vertical lifting rods, first levers and comb-shaped stops for the lever systems of the heald frames, said reading unit being structurally separate from the control unit, the reading unit acting on the control unit by bearing and thrust contact between tappets of the reading unit rockers and ends of said horizontal needles of the control unit which control the vertical lifting rods for hooks, said vertical lifting rods pivoting at a lower end to said first levers which rock within said comb-shaped stops which halt the rods in a downward direction and guide them laterally.

Compl. Specn. 8 pages.

Drgs. 4 sheets

CLASS : 119-C.

156762

Int. Cl. : D 03 c 5|00.

MEANS FOR CONTROLLING KNIFE OSCILLATIONS AND HOOK MOVEMENTS IN A LOOM DOBBY.

Applicant : FIMTESSILE FABRICA ITALIANA MACCHINARIO TESSILE S.p.A., OF VIA SPIAZZI, 52, 24028 PONTE NOSSA (BERGAMO), ITALY.

Inventor : 1. OLIVO EPIS.

Application No. 924|Cal|82 filed August 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Means for controlling knife oscillations and hook movements in a loom dobby comprising linkages for controlling oscillations of the fixed and mobile knives of a dobby which are intended to facilitate correct engagement of said knives with the dobby hooks, characterised by comprising first levers fixed to the knives, second levers fixed to control shafts, and connecting rods which link said first and second levers together, said control shafts being aligned on a common axis and mutually abutting, and the linkages forming two articulated 4-sided polygons having vertices, one of the vertices of one polygon being in common with a vertex of the other polygon.

Compl. Specn. 8 pages.

Drgs. 4 sheets.

CLASS : 119-C.

156763

Int. Cl. : D 03 c 5|00.

PLAY-TAKING-UP MEANS IN LOOM DOBBY CONTROL UNITS.

Applicant : FIMTESSILE FABRICA ITALIANA MACCHINARIO TESSILE S.p.A., OF VIA SPIAZZI, 52, 24028 PONTE NOSSA (BERGAMO), ITALY.

Inventor : 1. OLIVO EPIS.

Application No. 925|Cal|82 filed August 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Play taking-up means in loom dobby control units comprising a rocker lever linked in the middle with the transmission lever mounted with the possibility of containing with its ends the mobile and fixed blades and linked by its ends with hooks mounted for engagement and disengagement with mobile and fixed knives having convex surfaces for contacting the hooks, the last of which being connected with the drive with the possibility of oscillation in respect to a horizontal axis disposed at an equal distance from the hooks and the means for turning mobile and fixed knives for taking-up and forming plays during the period of change-over between the knives and hooks, characterized in that with the aim of improving the reliability and noise elimination the surfaces of the hooks contacting with the knives are flat and the surfaces of mobile and fixed blades contacting with the end of the rocker lever are disposed perpendicular to the lines joining the points of contact of the mobile and fixed knives with hooks and the points of contact of the mobile and fixed knives with hooks and the points of contact of the rocker lever with the mobile and fixed blades respectively, said surfaces having the form of circular arcs and having their centers at the points of contact between the hooks and the mobile and fixed knives.

Compl. Specn. 8 pages.

Drgs. 3 sheets.

OPPOSITION PROCEEDINGS

(1)

The application for Patent No 151749 made by Orissa Cement Limited against which an opposition was entered by Belpahar Refractories Limited as notified in the Gazette of India, Part-III, Section 2 dated the 11th February, 1984 has been treated as dismissed and a patent has been ordered to be sealed on this application

(2)

An opposition has been entered by Director General, Research, Designs & Standards Organisation to the grant of a patent on application No 155991 made by Dr Anil Krishna Kai

(3)

An opposition has been entered by Harbans Lal Malhotra & Sons Ltd, to the grant of a patent on application No. 156135 made by 'Wilkinson Sword Limited'.

(4)

An opposition has been entered by The English Electric Co of India Ltd, Madras to the grant of a patent on application for Patent No 155176 made by M/s Mitsubishi Denki Kabushiki Kaisha Japan

PATENTS SEALED

147577 151550 151682 151967 152065 152567 152939 153126
153137 153142 153270 153271 153297 153324 153325 153326
153380 153519 153585 153748 153764 153768 153817 153820
153836 153856 153873 153911 153919 153921 153923 153925
153953 154027 154026

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Egyesult Izzolampa Es Villamossagi Rt, of Vaci ut 77, 1340 Budapest, Hungary, a Hungarian Company have made an application under Section 57 of the Patents Act 1970 for amendment of application specification and drawings of their Patent Application No 154885 for "Electric Lamp Provided with a Ceramic Discharge Tube". The amendments are by way of changing name from 'Egyesult Izzolampa Es Villamossagi RT' to 'Tungsram Reszvenytarsasag'. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta 700 017 or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

CHEMICAL ENGG LIST NO VIII

COMMERCIAL WORKING OF THE PATENTED INVENTIONS

The following patents in the field of Chemical Engg. Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1983 generally on account of want of requests for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact patentee for the grant of a licence for the purpose.

Sr No.	Patent No.	Date of Patent	Name & address of the Patentees	Title of the invention
1	2	3	4	5
1.	142161	20-11-74	METALLGESELLSCHAFT AG 16 Frankfurt A.M Reuterweg West Germany.	Process for producing methanol
2	143022	6-12-74	UNIC VAN KUSTMEST FABRIC KON B V Malicbaan 81, Utrecht, The Netherlands	Process for preparing prills from a urea melt containing monoammoniumphosphate & urea prills obtained by such process
3.	143034	8-4-76	SOLVAY & CIE 23 Rue du Prince Albert, B-1050 Brussels, Belgium	Process for the polymerization of olefin
4.	143068	18-3-75	SHERRITT GORDON MINES LTD 2800 Commerce Court West Toronto Ontario Canada	Method & apparatus for the continuous condensation of a gaseous mixture of ammonia, carbon dioxide and water vapour
5	143087	3-9-74	RHONE PROGIL SA 25 Quai Paul Doumer 92408 Courbevois France.	Process for oxyhalogenation of hydrocarbons and or their derivatives.
6.	143095	31-5-76	DR. C OTTO & COMP GMBH Bochum West Germany.	Process for treating the gas main washing liquid arising in coke ovens
7.	143118	10-12-75	ARBROOK INC 2500 Arbrook, Boulevard Arlington Texas USA.	A disinfectant agent

1	2	3	4	5
8	143126	17-10-74	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 FRG	Process for preparing 1-amino benzene 5-sulfato vinyl ethyl sulfone 2, 4-disulphonic acid 5-vinyl sulfone compound and the alkali salts thereof.
9.	143128	7-5-75	UOP INC Ten UOP Plaza, Algonquin & Mt Prospect Roads, Des Plaines Illinois USA	A hydrocarbon conversion process
10	143191	17-10-74	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 FRG	Process for the preparation of new water soluble azo dyestuffs
11.	143194	6-11-74	ICI AUSTRALIA LTD TTC 1 Nicholson Street Melbourne Victoria 3001 Australia	Process for the preparation of ion exchange resin heads.
12.	143203	15-10-73	ANHEUSTER BUSCH INC 721 Postalozzi Street St. Louis Missouri USA	Process for the production of glucose isomerase
13.	143234	12-1-76	VULCAN CINCINNATI INC 2900 Vernon Place, Cincinnati Ohio USA	Process for making urea from ammonia & carbon dioxide
14.	143236	28-9-76	UOP INC Ten UOP Plaza, Algonquin & Mt Prospect Roads, Des Plaines Illinois USA.	Hydrogen fluoride alkylation process
15.	143258	12-10-76	JOHNSON & JOHNSON 501 George Street, New Brunswick New Jersey USA	A conditioning & cleaning shampoo composition non irritating to eyes
16	143262	9-3-76	VISVESVARAYA IRON & STEEL LTD Bhadravati 577301 Karnataka India	A method of production of ferro vanadium
17.	143271	13-8-74	DAIZO KUNIL & ETC 1-25-16 Nakamachi Meguro Tokyo Japan	Continuous carbonization & gasification of particulate coal with double recirculation of fluidized particulate of heat carrier and an apparatus thereof.
18.	143277	15-10-75	MERCK PATENT GESELLSCHAFT Darmstadt Frankfurter strasse 250 FRG	Rutile-containing lustrous pigments & process for producing the same.
19.	143287	22-4-75	SNAMPROGETTI SPA 16 Corso Venezia Milan Italy	Surfaces modifying of metal oxide catalysts
20.	143292	19-5-75	Do	Process for separating butadiene from C-4 hydro carbon stream.
21.	143294	19-5-75	Do.	Production of alkyl tertiary butyl ethers.
22.	143295	19-5-75	Do.	Process for producing tertiary alkyl ethers.
23.	143296	23-6-75	UOP INC Ten UOP Plaza Algonquin & Mt Prospect Roads, Des Plaines Illinois USA	Method of manufacture of hydrosulfurization catalyst.
24.	143315	18-3-75	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 FRG	Process for the preparation of new water soluble naphthyl monoazo pyrazolone dyestuffs
25.	143325	2-11-75	WACKER CHEMITRONIC GESELLSCHAFT FUR ELECTRONIK GRUNDSTOFFE MBH Johannes Hostreasse 24, 8263 Brughausen West Germany	Process for producing novel silicon crystals.
26.	143332	11-2-76	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India	Improvements in or relating to a process for production decolourising type active carbon from soft wood soft dust ground unit nut shell or the like.
27.	143334	19-11-75	Do.	Process for the extraction of nickel and cobalt values from lateritic & limonitic nickeliferous ores.

1	2	3	4	5
28.	143335	28-1-75	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 FRG	Process for the preparation of pure aromatic O-hydroxy carboxylic acids.
29.	143336	18-6 75	Do.	Process for the preparation of water soluble monoazo compounds.
30.	143381	21-12-74	PERSONAL PRODUCTS CO Miltown New Jersey, USA.	Aldehyde polysaccharide dressings for absorbing body fluids.
31.	143388	9-6-76	THE LUBRIZOL CORPORATION P.O. Box 17100 Euclid Station, Cleveland Ohio 44117 USA.	A composition for causing swelling of seals.
32.	143391	11-11-74	DR C. OTTO & COMP GMBH Christstrasse 9, Postfach 1849/1850 463 Bochum West Germany.	Process for the isolation of crude benzol and naphthoalene from the washing oil formed during the recovery of naphthalene and/or benzol from coke oven gas.
33.	143413	16-11 74	DAVY POWERGAS New Mulberry, Highway Lake Land, Florida USA.	Method of manufacturing wet process phosphoric acid
34.	143437	7-4-75	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India	A process for the production of a galvanic anode based on commercially pure aluminium surrounded by a back fill which does not passivate aluminium
35.	143438	15-1-75	ANSTALT GEMASS Vaduz Liechtenstein.	Method of continuous hydrolysis of pentosane containing material and apparatus for implementing this method.
36.	143442	10-1-75	METALLURGICAL PROCESS LTD & ETC. Trust Corporation Bahamas Building West Bay Street, Nassau Bahamas.	A method of condensing zinc vapour.
37.	143457	2-1-75	MONSANTO CO 800 North Lindbergh Boulevard St. Louis Missouri 63166 USA.	Process of producing styrene from toluene.
38.	143469	19-11-74	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	A process for the production of barium calcium petroleum sulphonates useful as detergent dispersant additives for motor oils.
39.	143470	27-6 75	KARL KIENNER 7081 Goll Shofe G Stablbkreis (West Germany).	Process and apparatus for the production of combustible gas from waste material.
40.	143521	3-11-76	RHONE POULENIC INDUSTRIES 22 avenue Montaigne 75 Paris (3) France	Process for the production of phosphoric acid.
41.	143534	20-3-75	ASAHI KASEIKI KOGYO KABU- SHIKI KAISHA 25-1 Dojima Hamadari, 1-chome, Kuto-ku, Osaka, Japan.	Method for producing acrylonitrile.
42.	143558	15-7-75	CONTINENTAL CARBON COMPANY 4120 South West, Freeway, Houston Texas, 77027 USA.	Process for manufacturing oil furnace carbon blocks.
43.	143563	22-10-74	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel van Bylandtlaan 30, The Hague, The Netherlands.	Process for the production of ethylene oxide.
44.	143568	21-10-74	SHERITT GORDON MINES LTD 2800 Commerce Court West, Toronto, Ontario, Canada.	Process of extracting nickel from nickeliferous laterite ore containing lenonite and serpentine fractions.
45.	143602	12-12 74	THE LUBRIZOL CORPORATION Box 17100 Euclid Station Cleveland, Ohio 44117 USA.	Process for the preparation of hydroxy alkyl hydroxy aromatic condensation products.
46.	143619	23-7 75	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Improvements in or relating to the manufacture of lead zirconate titanate
47.	143659	17-10-75	Do.	Improvements in or relating to preparation of pigment grade calcium chromate.

1	2	3	4	5
48.	143660	13-2-75	THE LUBRIZOL CORPORATION Box 17100 Euclid Station Cleveland, Ohio 44117 USA.	A method for preparing an oil soluble nitrogen containing composition useful in lubricants & fuels.
49.	143675	13-8-75	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Improvements in or relating to a process for the production of kerosene and diesel oil from heavy stocks of petro- leum employing alumina base catalysts.
50.	143692	20-9-76	Do.	A process for the preparation of copper sulphate utilising waste sulphuric acid.
51.	143710	14-6-76	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A process for the dehydrogenation of a hydrocarbon with acid of an iron con- taining catalysts.
52.	143731	16-2-77	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Improvements in or relating to breath alcohol analysers for detecting alcohol in breath.
53.	143734	2-4-75	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main, 80, FRG	Liquid aqueous dyeing preparations of reactive dyestuffs.
54.	143743	5-8-76	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	A method for the preparation of iron oxide catalysts by precipitation from homogenous solution.
55.	143745	7-4-75	Do.	Preparation of iron oxide black and red pigments.
56.	143746	18-7-75	DEERE & COMPANY John Deere Road, Moline, Illinois 61265 USA.	Improved process for the production to cast modular iron.
57.	143755	10-11-75	CSIR Rafi Marg, New Delhi-1, India	An improved process for the manu- facture of a pancreation product used for bating hides and skins in leather manu- facture and for the stripping of gelatine from photographic and x-ray films.
58.	143785	3-11-76	RHONE POULENC INDUSTRIES 22 Avenue Montaigne 75 Paris (8) France.	Apparatus for removing impurities from gases.
59.	143794	11-6-75	MITSUI TOATSU CHEMICALS INCORPORATED No. 2-5 Kasumigaseki, 3-chome, Chiyoda-ku Tokyo Japan.	Improvements in chemical process and apparatus therefor.
60.	143800	20-9-75	METALLGESELLSCHAFT AG Frankfurt AM Reuterweg 14, West Germany.	Method of carrying out endothermic pro- cess.
61.	143802	31-5-76	Do.	Process for separating solid granular metallurgical products and their pre- cursors on a plurality of linearly vibrating screens.
62.	143818	26-4-75	CSIR, Rafi Marg, New Delhi-1, India	A process for preparing a new fibre extinguishing material for extinction of fires in flammable liquids.
63.	143835	28-4-76	RHONE POULENC INDUSTRIES 22 Avenue Montaigne 75 Paris (8) France.	Preparation of polyvinyl chloride.
64.	143839	29-5-75	HINDUSTAN LEVER LTD. Hindustan Lever House, 165/166 Backbay Reclamation, Bombay-20, India.	Production of detergent compositions.
65.	143854	3-7-75	METALLGESELLSCHAFT AG 16 Frankfurt AM Reuterweg 14, West Germany.	Process of purifying gases produced by a gasification of solid fossil fuels by a treatment with water vapour and oxygen under super atmospheric pressure.

1	2	3	4	5
66.	143874	18-1-77	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process and apparatus for preparation of dewatered carbonaceous particles.
67.	143876	24-7-75	NUOVOPIENONE S.P.A. Via F. Matteucci 2, Firenze, Italy.	A process for producing oxygen and or nitrogen in the liquid state.
68.	143881	29-3-75	SNAMPROGETTI S.P.A. 16 Corso Venezia, Milan Italy.	Process for removing urea powder.
69.	143889	24-11-75	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 FRG	A process for the manufacture of poly- mer mixture for making intermediate sheeting for laminated glass.
70.	143900	20-3-74	CROFTSHAW ENGINEERS LTD. Acton Works, Bull Lane, Long metford, Suffolk England.	Multi bed absorbers.
71.	143912	24-11-75	INSTRUMENT ARIUM or Elimaenkatu 22, 00510 Helsinki St Finland.	Process and apparatus for producing compound thin films.
72.	143915	10-12-75	ARKBROOK INC 2500 Arkbrook Boulevard, Arlington Texas USA.	A method of treating medical and surgica instruments household objects to render the sterile.
73.	143923	25-3-75	TEXACO DEVELOPMENT CORPORATION 135 East 42nd Street, New York, 10017 USA.	A continuous process for the production of gaseous mixtures.
74.	143930	11-11-75	THE BENFIELD CORPORATION Station Square III, Suite 206, Peoli Pennsylvania 19301, U S A.	Synthesis of ammonia from a hydrocarbon starting material.
75.	143931	29-11-75	TEXACO DEVELOPMENT CORPORATION 135 East 42nd Street, New York, 10017 USA.	A continuous process for producing a stream of gas.

COMMERCIAL WORKING OF THE PATENTED INVENTION

CHEM. ENGG. LIST NO. IX.

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar year 1983, generally on account of want of requests for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Sr. No.	Patent No.	Date of Patents	Name & Address of Patentees	Title of the Invention
1	2	3	4	5
1.	143982	17-11-1975	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, Federal Re- public of Germany.	Liquid preparation of reactive dyestuffs.
2.	144000	13-6-1975	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Improvements in or relating to the soak cleaning of steel contaminated with oil
3.	144019	30-8-1975	UNITED STATES BORAX AND CHEMI- CAL CORPORATION of 3075 Wilshire Boulevard, Los Angeles, California, U.S.A	A process for the fluid-bed dehydration of borax
4.	144027	14-4-1977	THE LUBRIZOL CORPORATION, of Box 17109 Euclid Station Cleveland Ohio 44117, U.S.A.	A process for preparing a magnesium containing complex.
5.	144034	10-9-1975	SHOWADENKO K. K. of 13-9 Shiba-Daimon 1-chome, Minato- ku Tokyo, Japan.	Method for manufacture of reduced pellets for use in metal refinery from mineral ore.

1	2	3	4	5
6.	144044	19-12-1974	MIDREX CORPORATION One NCNB Plaza, Charlotte North Carolina 28280, U.S.A.	Process for reducing iron oxide to metallic sponge in a bath with liquid or solid fuels.
7.	144053	13-5-1975	METALLURGICAL PROCESSES LIMITED, of Trust Corporation of Bahamas Bldg. West Bay Street Nassau, Bahamas.	A method of smelting zinc in blast Furnace.
8.	144057	19-11-1975	PERSONAL PRODUCTS COMPANY of Mill town, New Jersey U.S.A.	A method of making absorbent cellulose particles.
9.	144076	28-5-1975	UNITED TECHNOLOGIES, of Hartford, Connecticut, U.S.A.	A method of preparing a coating composition for improving the hot corrosion.
10.	144097	22-7-1976	AMENCHARLA GAUTAMA & ETC. of Oil Technological Research Institute, Anantpur 516001; Andhra Pradesh, India.	A process of obtaining fatty oils & essential oils simultaneously from Umbrelliferous seeds.
11.	144012	4-9-1975	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, N.Y. 10017, U.S.A.	A method for the continuous manufacture of gaseous mixture comprising H ₂ Co.
12.	144109	1-12-1975	LINDE AKTIENGESELLSCHAFT, of Abraham Lincoln Strasse 21 D-62, Wiesbaden, F.R.G.	Separation of hydrogen & carbon dioxide in a process for the production of H ₂ & CO ₂ and an apparatus thereof.
13.	144118	11-7-1975	Dr. C. OTTO & COMP. G. m. B.H. of Bochum West Germany.	Slag bath generator adapted to operate under pressure.
14.	144119	3-9-1975	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80, Federal Republic of Germany.	A composition of matter comprising of dyestuff pigment are optical brightener and condensation product of alkyl-naphthalene sulphonic acid & formaldehyde.
15.	144120	30-9-1975	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, Federal Republic of Germany.	Process for dyeing and printing of synthetic polythetic polyamides.
16.	144134	16-9-1975	GOULD INC., of 10, Gould Center, Rolling Meadows, Illinois, U.S.A.	Improvements in or relating to re-use of vulcanized rubber.
17.	144141	8-1-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Process for coating of zinc & die cast zinc alloy for corrosion protection.
18.	144147	19-10-1976	Do.	Improvements in or relating to the electrochemical preparation of O-toluidine sulphate from O-nitrotoluene.
19.	144150	10-10-1975	ZAKALADY AZOTOWE IM. F. DZIERZYNSKIEGO of Tarnow Ul, Lipowa 33-101, Tarnow, Poland.	A method for oxidation of hydrocarbons in the liquid phase under pressure by oxygen containing gases preventing disturbances and/or effect of disturbances in the reaction system.
20.	144152	6-11-1975	METALLGESELLSCHAFT AG. of 16 Frankfurt A.M. Reuterweg 14, West Germany.	A gravity separation process for removing tar from an aqueous condensate.
21.	144162	27-4-1977	HOECHST AKTIENGESELLSCHAFT, of 6230, Frankfurt/Main 80 Federal Republic of Germany.	Process for making stabilized red phosphorus.
22.	144181	25-2-1975	ALUMINIUM PECHINEY, 28 Rue de, Bonnel-69003-Lyon France.	A method of and apparatus for collecting gases from a cell
23.	144184	20-3-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	An apparatus for reducing process time in the diazotization of 4-nitro, 2-chloro-aniline.
24.	144185	22-3-1976	Do.	An apparatus to monitor 4-nitro-2-chloro diazonium chloride coupling with beta-naphthol.

1	2	3	4	5
25.	144206	7-5-1976	METALLGESELLSCHAFT AG. of Reuterweg 14, D-6 Frankfurt AM main, West Germany.	Continuous process of recovering pure concentrated ammonia.
26.	144216	9-5-1975	E.I. DU PONT DE NEMOURS & CO. of Wilmington, Delaware, U.S.A.	An oriented filament of polyester and method of making the same.
27.	144220	27-4-1976	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80, Federal Republic of Germany.	Process for the preparation of 5-acetoacetyl -2, 5--dimethoxy-4-chloroanilide.
28.	144231	27-10-1976	TEXACO DEVELOPMENT CORPORA- TION, 135, East 42nd Street, New York, State of New York, U.S.A.	Preparation of solid fuel-water slurries.
29.	144252	2-12-1974	MONSANTO COMPANY of 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Process for preparing novel his phos- phire compounds.
30.	144261	2-4-1975	PERSONAL PRODUCTS COMPANY, of Milltown, New Jersey, U.S.A.	A method for making cellulose graft copolymer.
31.	144263	27-5-1976	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	A process for improving the tool life of high speed steel tools.
32.	144264	30-7-1975	SNAMPROGETTI S. p.a. of 16 Corso Venezia, Milan, Italy.	Improvements in or relating to the pro- duction of polyiminoalanes.
33.	144308	27-11-1975	THE LUBRIZOL CORPORATION, of P.O. Box-17100, Euclid Station Cleveland Ohio, 44117, U.S.A.	A method of nitrogen containing sul- furated mannich condensation product useful as an additive for lubricants and normally liquid fuels.
34.	144344	28-1-1976	HOECHST AKTIENGESELLSCHAFT, of 6230, Frankfurt/Main 80 F.R.G.	An improved process for the preparation of Water soluble azo dyestuffs.
35.	144349	22-6-1976	Do.	Stable liquid water containing dyeing compositions containing disperse & reactive dyestuffs.
36.	144385	10-3-1976	UNION CARBIDE CORPORATION, of 270 Park avenue, New York, State of New York 10017, U.S.A.	Process for the preparation of low and medium density ethylene polymer in fluid bed reactor.
37.	144389	28-1-1976	HOECHST AKTIENGESELLSCHAFT, of 6230, FRANKFURT/MAIN 80, Federal Republic of Germany.	A process for the preparation of liquid aqueous compositions of fibre reactive azo dyes
38.	144408	31-3-1976	MITSUI COKE COMPANY LIMITED, of No. 1-1- Muromachi, 2-Chome, Nihon bashi, Chuo-ku, Tokyo, Japan.	Process for manufacturing coke.
39.	144410	7-8-1976	DR. C. OTTO & COMP. GMBH of 463 Bochum, West Germany.	A method for the production of coke using a battery of coke ovens with a regenerative change of draught.
40.	144449	7-5-1976	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80 F.R.G.	Process for the preparation of stable monoazo dyestuffs.
41.	144499	15-4-1976	UNILEVER LIMITED of Unilever House Blackfriars, London EC4, England.	Process for the preparation of dry leaf tea.
42.	144514	28-5-1976	HOECHST AKTIENGESELLSCHAFT, of 6230, Frankfurt/Main 80 Federal Republic of Germany.	Process for the preparation of stable modification of a disazo dyestuff.
43.	144534	27-4-1976	Do.	Process for preparing 1-(N-B cyanethyl- amino) 3-acylaminobenzenes.
44.	144565	28-2-1977	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady 5, New York, U.S.A.	Shaped flame retardant rigid thermo- plastic foams.

1	2	3	4	5
45.	144576	26-5-1976	HOECHST AKTIENGESELLSCHAFT, of 6230, Frankfurt/Main 80 F.R.G.	Preparation of disperse dyestuffs having improved safety properties and/or higher dyestuff yield.
46.	144577	20-7-1976	MONOSANTO COMPANY, of 800 North Lindbergh Boulevard, St. Louis Missouri 63166, U.S.A.	Process of making thermoplastics elastomeric composition.
47.	144604	30-8-1976	THE LUBRIZOL CORPORATION, of Box-17100, Euclid Station, Cleveland, Ohio 44117, U.S.A.	Process for the preparation of hydrocarbon substituted methylol phenol compositions.
48.	144620	5-4-1977	PULP & PAPER RESEARCH INSTITUTE, Jayakaypur, Distt. Koraput, Orissa, India	chemicals from black liquor in a pulp mill of 30 to 35 tons per day capacity.
49.	144631	26-11-1975	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady, New York, U.S.A.	A method of preparing a discrete dispersion of di-tertiary butyl peroxide and polyolefin materials.
50.	144639	5-1-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Improvements in or relating to acid picking of ferrous items.
51.	144644	13-4-1976	SAINT-GOBAIN INDUSTRIES, of 62 Boulevard, Victor-Hugo, Neuilly-sur-seine, France.	Process for the manufacture of phenol formaldehyde resins.
52.	144645	23-7-1976	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, F.R.G.	Process for the preparation of water-soluble copper complex compounds.
53.	144657	27-3-1976	RHONE-POULENC INDUSTRIES, of 22, Avenue Montaigne, 75 Paris, Paris (8th) France.	Method of degassing polymers and copolymers.
54.	144670	7-8-1976	RHONE-POULENC INDUSTRIES, 22, Avenue Montaigne, 75 Paris 8 EME France.	A method of preparing aluminium hydroxychlorides
55.	144673	25-8-1976	METALLGESELLSCHAFT A.G., 16 Frankfurt AM, Reuterweg 14, West Germany.	Method of carrying out exothermic processes.
56.	144675	15-12-1976	BENILITE CORPORATION OF AMERICA, of 233 Broadway, New York-10007, U.S.A.	Improvements in beneficiation of Ilmenite ore.
57.	144711	2-5-1975	FL. SMIDT & CO. A/S, of 77 Vigerslev Alle, DK-2500 Copenhagen Valby, Denmark.	Improvements relating to the method & plant for clacination of pulverous materials.
58.	144745	14-2-1977	SID RICHARDSON CARBON & GASOLINE CO., of 31st Floor, Fort worth, National Bank Building, Fort, Texas 76102, U.S.A.	Method & apparatus for the production of carbon block.
59.	144758	23-6-1975	THE LUBRIZOL CORPORATION, of P.O. Box 17100 Euclid Station Cleveland Ohio 44117. U.S.A.	A metal work piece having on the surface thereof a lubricant.
60.	144759	28-3-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, of No. 8 Horidomecho, 1-chome Nihonbashi, Chuo-ku, Tokyo, Japan.	A method of producing nitrogen-containing polysaccharides having an anti-tumour activity.
61.	144761	21-4-1975	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, State of New York-10017, U.S.A.	Production of methane-rich gas.
62.	144819	26-12-1975	ETHICON INC. of Sommerville, New Jersey, U.S.A.	An improved surgical suture and method of preparing same.
62.	144827	12-10-1976	METALLGESELLSCHAFT AG. of 16 Frankfurt A.M. Reuterweg, 14, West Germany.	A process of producing sulfur from acid gases.

1	2	3	4	5
64.	144829	29-3-1977	UNION CARBIDE CORPORATION, of 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for polymerizing a monomer charge.
65.	144838	2-7-1976	BERNARD DEMOISEAU, of 11, Rue, Joseph-Cursat 74100, Anne- masse-Dept. of Haute-Savoie, France.	Method for the continuous combustion of mineral or organic combustibles and installation for carrying out this method.
66.	144852	28-7-1973	ROBERT BOSCH GMBH, of Postfach 50, 7, Stuttgart 1, F.R.G.	An electrically conductive sealing com- position and method of its preparation.
67.	144919	22-9-1976	TEXACO DEVELOPMENT CORPORA- TION, of 135 East 42nd Street, New York-10017, U.S.A.	A process and apparatus for continuously separation by gravity of particulate carbon-liquid organic extractant dis- persion.
68.	144934	9-7-1976	GFE GESELLSCHAFT FUR ELEKTRO- METALLURGIE mbH. of Grafenberger Allee 56, 4000 Dusseldorf 1, F.R..	Process for the decarbonization of high carbon ferro-manganese.
69.	144935	10-8-1976	PHILIPS PETROLEUM COMPANY, of Bartlesville, State of Oklahoma, U.S.A.	Process for decontaminating catalyst & a process for catalytic cracking of hydrocarbons using such a catalyst.
70.	144940	8-2-1977	THE LUBRIZOL CORPORATION, of P.O. Box 17100 Euclid Station, Cleve- land, Ohio 44117, U.S.A.	A lubricating composition.
71.	144941	17-2-1977	CHISSO CORPORATION, of 1, Sozecho, Vitaku, Osaka, Japan.	Method for producing vinyl chloride polymers.
72.	144962	28-4-1976	JOHN A. EASTIN, of P.O. Box 389, Grant Nebraska, U.S.A.	Apparatus for nitrogenous fertilizing.
73.	144979	1-7-1976	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt Main 80, Federal Re- public of Germany.	Liquid composition soft relative dyes.
74.	144981	23-11-1976	TEXACO DEVELOPMENT CORPORA- TION, of 135 East, 42nd Street, New York, N.Y 10017-U.S.A.	Fluidized cracking catalyst regeneration process and apparatus.
75.	144991	6-10-1977	KUREHA KAGAKU KOGYO KABU- SHIKI KAISHA of 9—11, Nihonbashi Horidome-Cho, 1-Chome, chuo-ku, Tokyo, Japan.	Method for preserving edible roots of devil's tongue.

COMMERCIAL WORKING OF THE PATENTED INVENTIONS

CHEM ENGG LIST NO. X

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 46(2) of the Patents Act, 1970 in respect of calendar year 1983 generally on account of want of pecunia for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name & address of the Patentee	Title of the invention
1	2	3	4	5
1.	145019	13-9-1976	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Improvements in or relating to the pro- duction of green photoluminescent cop- per activated zinc sulphide phosphor (ZnS-Cu).
2.	145049	13-10-1977	TSURUMI SODA COMPANY LIMITED 7 Suehirocho-1-Chome, Tsurumi-ku Yokohama-shi, Kanagawa-Ken, Japan.	Apparatus for expanding destroying and softening structures of anima and vege- table & fibrous materials.

1	2	3	4	5
3.	145073	12-8-1976	ELI LILLY & CO 307 East Me Carty Street, City of Indiana polis State of Indiana USA.	A method of preparing rodenicidal N-alkyl diphenylamines.
4.	145083	7-10-1976	THE LUBRIZOL CORPORATION Box 17100 Euclid station, Cleveland Ohio 44117 USA.	A lubricant composition for two cycle engines.
5.	145084	Do.	Do.	Process for preparing amino phenol compounds.
6.	145085	27-10-1976	Do.	A process for making a nitrogen containing organic composition.
7.	145087	19-7-1977	UBE INDUSTRIES LTD 12, 32 1-cho.me, Nishi-Honamachi-Ubo shi-yama Guchiken Japan.	Process for the preparation of dialkyl oxaltes.
8.	145096	16-10-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India;	Improvements in or relating to the electro chemical preparation of para amino benzoic acid sulphate p-amino benzoic acid from p-nitrobenzoic acid.
9.	145113	8-11-1976	TEXACO DEVELOPMENT CORPORATION 135 East 42nd street, New York 10017 USA.	Production of clean synthesis or fuel gas.
10.	145165	8-10-1976	JOHNSON & JOHNSON 501 George street, New Brunswick New Jersey USA.	Low irritation detergent, composition.
11.	145169	28-3-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA No 8 Horidome Cho Nihonabashi Chuo Ku Tokyo Japan.	Method of producing nitrogen containing polysaccharides.
12.	145212	6-5-1977	HOECHST AKTIENGESSELLSCHAFT 6230 Frankfurt Main 80 FRG	Process for the preparation of isomer for from toluene-4-sulphonic acid.
13.	145230	29-9-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel van Bylandtlaan 30, The Hague The Netherlands.	Process and the reactor for the partial combustion of pulverized coal.
14.	145255	1-9-1976	TEXACO DEVELOPMENT CORPORATION 135 East 42nd street, New York 10017 USA.	Process for production of synthesis gas.
15.	145277	22-8-1975	ELI LILLY & CO 307 East Mc. Carty street, Indian polis Indiana, U S A.	A process for preparing 3-henyl-5 substituted 4(1,4) pyriolones 'theones).
16.	145307	4-5-1976	BIOCHEMICANICS LTD Smarden Ashford Kent, England.	A method of obtaining reduced quantity of waste materials from biodegradable waste-materials.
17.	145355	7-5-1976	EISENWERK GESELLSCHAFT MAXIMILIAGSHUTTE GmbH 8458 Sulzbach Rosenberg, West Germany.	Method and apparatus for continuous gasification of solid and/or fluid carbon containing and/or hydrocarbon containing substance in molten iron reaction vessel.
18.	145362	2-5-1977	MONS ANTO CO 800 N rth Lindbergh, Boulevard, St Louis, Missouri 63166 USA.	A process for preparing adducts of salt of n-phosphoromethyl glycine and a cyclic anhydride.
19.	145369	29-7-1976	RHONE POULENC INDUSTRIES 22 Avenue Montaigne 75 Paris 8 EME France.	A composition for treating water to flocculate impurities contained therein and method of making the same.
20.	145378	4-5-1977	AMERICAN CYNAMID CO Wayne, New Jersey, USA.	Novel method for dinitrosation of organic nitrosamines.
21.	145468	22-6-1976	S.I.A.P. SOCIETA INDUSTRIELE AGGLOMERATI PRODUTTI PERTOLIFERI S.P.A. 117 Corso de Popolo 30172, Venezia - Mestic Italy.	A process for producing graphitic agglomerates & agglomerated products obtained by it.

1	2	3	4	5
22.	145516	9-9-1976	UNION CARBIDE INDIA LTD 1 Middleton street, Calcutta-700016 West Bengal India.	Separation of mixture of 3:4 & 2:4 dichloro enyl chlorides from reaction product containing same and p-chloro-benzyl chloride.
23.	145517	18-10-1977	SHELL INTERNATIONALE RESEARCH MAAT CHAPPIJ B.V. Carel Ban Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of a hydrogen rich gas.
24.	145547	16-11-1976	RCA CORPORATION 80 Rockefeller Plaza, New York 110017 USA.	Process for manufacturing hybrid oxides of silicon for semi-conductor device.
25.	145549	2-12-1974	MONSANTO CO 300 North Lindbergh Boulevard St Louis Missouri 63166 USA.	Process for preparing optically active catalyst.
26.	145552	26-8-1977	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/ Main 80, FRG.	Pigments dispersions.
27.	145583	11-1-1977	HOUILLERES DU BASIN DE- LORRAINE 2 Rue de Metz, 57802 Freyming Merlebach (Moselle) France.	An improved process for the separation of tar and dusts from coke oven gas.
28.	145617	22-8-1977	OUTOKUMPU OY Outokumpu, Finland.	Hydrometallurgical process for recovery of zinc, copper, and calcium from their ferrites.
29.	145626	15-7-1976	AIR PRODUCTS AND CHEMICALS INC Allentown, Pennsylvania 18105 USA.	Gasification of hydrocarbon feed stocks.
30.	145670	6-1-1977	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017 USA	Method of preparing nickel, rhenium hydrogenation catalyst.
31.	145673	8-8-1977	METALLGESELLSCHAFT AG 16 Frankfurt A.M. Reuterweg 14, West Germany.	Process for calcining lime stone in a rotary kiln.
32.	145731	29-4-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1 India.	An improved process for the preparation of 2, 4-dichlorophenol of more than 98% purity.
33.	145788	15-10-1976	DEUTSCHE GOLD UND SILBER SCHEIDEANSTALT VORMALS ROESSLER 9, Weisefrauenstrasse, 6000 Frankfurt Main FRG.	Procedure for carrying out Ion exchange reactions.
34.	145794	9-11-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1 India	Improvements in the process for the production of wet heat resistant chrome leather.
35.	145795	21-8-1975	NUCHEM PLASTICS LTD 20/6 Milestone Mathura Road, Faridabad- 121001 India.	A process for the preparation of catalyst
36.	145843	6-4-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1 India.	A process for the separation of n-paraffinic hydrocarbons of carbon range C ₁₂ -C ₂₅ present in kerosene and light diesel oil fraction by microbial means.
37.	145851	7-4-1977	NOTTO CHEMICAL INDUSTRY CO LTD No 5-1 Marunouchi 1-chome, Chiyoda Ku, Tokyo, Japan.	Process for producing acrylonitrile.
38.	145855	29-7-1977	UOP INC At ten UOP Plaza Algonquin, Mt Prospect Roads Des Plaines Illinois USA	Process for separating a monosaccharide from an oligosaccharide by selective adsorption.
39.	145865	22-12-1976	JEAN YVES K-GAIL 26 Rue de l'église-92200 Neuilly-Sur- -seine, France.	A water proof covering and process for manufacturing the same.
40.	145873	8-8-1977	METALLGESELLSCHAFT AG 16 Frankfurt AM Reuterweg 14, West Germany.	Direct reduction process of iron oxide containing materials carried out in rotary kiln.

1	2	3	4	5
41.	145893	16-4-1977	UNION CARBIDE INDIA LTD 1 Middleton street, Calcutta 70001 6 West Bengal India.	A synthetic method for production of 2-chloro 2-methyl-1-nitrosopropane.
42.	145922	21-6-1976	HINDUSTAN LEVER LTD Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20 Maharashtra India.	Super fatted detergent bars.
43.	145922	23-6-1976	BAMAG VER Butzbach/Hessen, West Germany.	Coal gasification process.
44.	145931	21-8-1976	HINDUSTAN LEVER LTD Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20 Maharashtra India.	Detergent compositions.
45.	145932	9-11-1976	CALICO INDUSTRIAL ENGINEERING PVT LTD Chakala Works P.O. Box No 9411 Andheri Bombay-400 093.	Process and plants for continuous souring of textiles in open width.
46.	145940	2-11-1976	DIAMOND SHAMROCK EUROPE LTD P.O. Box 1 Emerson House Albert street Eccleux Manchester M 30 OBH England.	A concentrate for use in the dispersion of oil spillages.
47.	145951	4-10-1977	METALLGESLLS CHAFT AG 16 Frankfurt A.M. Reuterweg 14, German Federal of Republic.	Process for regenerating water containing methanol or other water containing highly volatile organic solvent from gases.
48.	145959	12-10-1976	HINDUSTAN LEVER LTD Hindustan Lever House, 165-166 Backbay Reclamation Bombay 20.	Heavy duty fabric washing powder.
49.	145965	5-10-1977	UBE INDUSTRIES LTD 12-32 1 chome, Nishi Honmachi, Obeshi, Yamaguchiken Japan.	Process for preparing diesters of dicarboxylic acids.
50.	146012	26-7-1977	KUREHA KAGAKU KOGYO KABU- SHIKI KAISHA No 8 Horidone Chome, Nihonbashi Chou- ku, Tokyo Japan.	Improvements in a method of preparing a nitrogen containing polysaccharides.
51.	146030	21-9-1977	AMERICAN HOMEPRODUCT CORPORATION 685 Third Avenue New York 10017 USA	Process for the preparation of non peptides.
52.	146044	1-4-1977	SHIN ETSU CHEMICAL CO LTD 6-1 Otomachi 2, Chome, Chiyoda Ku Tokyo Japan	Method for removing unreacted monomer from the aqueous dispersion of polymerizate of vinylchloride.
53.	146057	19-7-1977	CHEMISCHE VERE AHRENSTECH- NIC GMBH Grabenstr 5,400 Dusseldorf 1, West Germany.	Process for obtaining oxytan and fibrin from vegetable raw material containing xylene.
54.	146069	10-5-1977	JOHNSON & JOHNSON 501 George street, Brunswick New Jersey USA.	Tacky adhesive composition.
55.	146105	29-10-1976	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017 USA	Process for removal of H ₂ S from feed gas
56.	146113	19-7-1977	PROJEKTIERUNGSCHEMISCHE VER- FAHRENSTECHNIK GMBH Grabenstr 5, 4000 Dusseldorf 1, West Germany.	Process for Production of glucose from cellulose containing vegetable material.
57.	146114	5-10-1977	UNION CARBIDE INDIA LTD 1 Middleton street Calcutta 700 016 West Bengal India	Method for the synthesis of herbicidal compositions containing a mixture of 314 and 214 dichlorobenzyl N-methyl carbonate.
58.	146147	29-3-1977	UNION CARBIDE CORPORATION 270 Park Avenue, New York 100 017 USA.	Process for producing particulate resolve from aqueous dispersion.

1	2	3	4	5
59.	146164	26-7-1977	CO JNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1 India.	Improved process for the production of zinc phosphate wing zinc oxide.
60.	146167	18-11-1977	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 FRG	Process for the preparation of water soluble dyestuffs.
61.	146183	21-3-1977	CO JNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1 India.	A process for the Production of an electrically conductive paper used as a substrate for a plying zinc oxide electro photographic layers.
62.	146212	3-6-1977	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt Main FRG.	A process for Preparing stabilized red phosphorous.
63.	146230	2-4-1975	PERSONAL PRODUCTS CO Mill Town, New Jersey USA.	A sanitary absorbent product having cellulose graftcopolymer
64.	146232	19-10-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1 India	A process for the preparation of inorganic green pigments.
65.	146241	7-4-1977	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017 USA	Continuous hydroformylation process
66.	146282	6-7-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1 India.	Improvements in or relating to the production of disiccant grade silica gel.
67.	146313	6-5-1977	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt Main FRG	Process for the preparation of phthalocyanine compounds.
68.	146320	30-5-1977	MOBIL TYCO SOLAR ENERGY CORPN 16 Hickory Drive Waltham Massachusetts USA.	Method and apparatus for reducing residual stresses in crystals while the crystals are being pulled from a melt.
69.	146324	16-5-1977	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017 USA	Process of treating fabrics with foam.
70.	146325	7-12-1977	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 FRG.	A water free solid water soluble dyeing compositions.
71.	146347	18-11-1977	MONSANTO CO 800 North Lindbergh Boulevard St. Louis Missouri 63166 USA.	Process for preparing O ary 1 N-phosphonoglycino nitriles and salts thereof.
72.	146348	18-11-1977	Do.	A process for preparation N, N'methylene bis (O, O Diaryl N-phosphoromethyl glycinonitriles).
73.	146351	7-5-1977	IMPERIAL METAL INDUSTRIES KYNOC LTD Kynoh Works, Witton, Birmingham B 6 7BA England.	A method of manufacturing an alloy of titanium.
74.	146361	11-8-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA No 8 Horidome-cho 1-chome' Nihonbashi Chuo-Ku Tokyo Japan.	A method for preparing basidiomycetes.
75.	146362	7-5-1976	EISENWERK-GESELLSCHAFT MAXIMILIANSHUTTLE GmbH 8458 Sulzbach Roesnberg West Germany.	Method and apparatus for continuous gasification of solid and/or fluid carbon containing and or hydrocarbon containing substances in molten iron in a reaction vessel.

COMMERCIAL WORKING OF THE PATENTED INVENTIONS

CHEM. ENGG. LIST NO. XI

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar year 1983, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sr. No.	Patent No.	Date of Patent	Name & address of Patentees	Title of the inventions
1	2	3	4	5
1.	146408	24-1-1978	UNION CARBIDE CORPORATION, 270 Park Avenue New York, State of New York 10017, U.S.A.	Improved hydroformylation process.
2.	146446	11-8-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, of No. 8, Horidome-cho, 1, Chome, Nihonbashi, Chuoku, Tokyo, Japan.	A method of prepagating the mycelia of fungus from the polyporaceae to class Basidiomycetes.
3.	146476	17-6-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Process for the preparation of anionic stabilised fat liquors from animal oils.
4.	146479	14-6-1977	USS ENGINEERS & CONSULTANTS, INC. of 600 Grand Street, Pittsburgh, State of Pennsylvania, U.S.A.	Process for producing a synthetic rutile from Ilmenite.
5.	146516	26-10-1977	SHELL INTERNATIONALE RE- SEARCH MAATSCHAPPIJ B.V. of Carel, Van Bylandtlaan 30, The Hague, The Netherlands.	Esterification of hydrocarbylsubstituted Succinic anhydrides.
6.	146526	25-5-1977	HINDUSTAN CIBA-GEIGY LIMITED, of Arey Road, Goregaon (E), Bombay- 400 063, Maharashtra, India.	Process for the manufacture of new imidazolines.
7.	146531	19-10-1976	ALUMINIUM PECHINEY, 28 rue de Bonnel 69003, Lyon, France.	Purifications circulating in the layer cycle for the alkali treatment of bauxites by a barium compound.
8.	146537	30-8-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, of 8 Horidome-Cho, 1-Chome, Nihon- bashi, Chuo-Kur, Tokyo, Japan.	A method of producing novel monokaryo- tic mycelium of corolus versicolor.
9.	146553	24-3-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA of No.8 Horidome-Chome, Nipponbasi, Chuo-ku, Tokyo, Japan.	Method for the cultivation of Basidio- mycetes.
10.	146605	19-12-1977	MONSANTO COMPANY, of 800 North Lindbergh Boulevard, St. Louis, Missouri, 63166, U.S.A.	Process for producing mono or di-N- Phosphonomethylglycine salts.
11.	146612	30-8-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, of No. 8, Horidomecho, 1-chome Nihon- bashi, chuo-ku, Tokyo, Japan.	Improvements in a method for the culti- vation of basidiomycetes belonging to the genus coriolus polyporaceae.
12.	146613	2-7-1977	ICI LTD, of Imperial Chemical House Mill bank, London, SW1P, England.	A method of preparing a hardened cal- cium sulphate hemihydrate plaster.
13.	146625	11-8-1977	FMC CORPORATION, of 2000 Market Street, Philadelphia, Pennsylvania 19103, U.S.A.	A process for the preparation of an in- secticidal compound.
14.	146632	3-11-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	A process for the preparation of tertiary alkyl esters from the corresponding halides.
15.	146661	6-7-1977	UNION CARBIDE CORPORATION, of 270 Park Avenue, New York, State of New York, 10017, U.S.A.	Improvement in or relating to hydrofor- mylating an aliphatic.

1	2	3	4	5
16.	146690	17-8-1977	SOCIETE D'ETUDES DE PRODUITS CHIMIQUES of 4 rue Theodorile Ribot 75017 Paris, France.	Preparation process of a pyrimidine derivative.
17.	146699	12-1-1977	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20, Maharashtra, India.	An antiperspirant composition
18.	146734	11-8-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017 U.S.A.	A process for producing aldehyde products by Rhodium catalyzed hydroformylation of α -olefins.
19.	146754	6-5-1977	HOECHST AKTIENGESELSCHAFT 6230 Frankfurt/Main 80, F.R.G.	Process for the preparation of phthalocyanine compounds.
20.	146768	8-7-1977	DUNLOP PLANTATIONS LTD, of 6th floor, 47-48, Piccadilly, London W1V 7PH, England.	Method for the treatment of biodegradable material.
21.	146785	4-5-1977	UOP, INC. at Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process for the catalytic hydrorefining of an esty kienic hydrocarbonaceous charge stock employing a catalyst provided on support material having improved macropore volume.
22.	146802	14-12-1977	HERCULES INCORPORATED, of Wilmington, State of Delaware 19899, U.S.A.	Process for recovering oil from subterranean formations (Docket 76100-a-A-Ind.).
23.	146819	27-1-1978	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, P.O. Polytechnic, Ahmedabad-15 Gujarat.	Process of preparation of disperse/reactive dyes.
24.	146848	14-7-1977	ZEHEV TADMOR, 641, Standish Road, Teaneck, New Jersey, U.S.A.	Method and apparatus for processing polymeric material.
25.	146890	13-10-1977	METAL GESELISCHAFT, A.G. of 16 Frankfurt A.M. Reuterweg 14 West Germany.	Process of regenerating laden absorbents which become available when hydrocarbon containing gases are purified.
26.	146892	14-3-1978	HARISH NATVERLAL PATIL, Plot No 7, G.I.D.C. Kalol 382 721, North Gujarat, India.	Process for producing shaped articles from methyl methacrylate type polymers and/or copolymers containing fillers.
27.	146912	12-8-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India	Improved process for the manufacture of carbon fibres from polyacrylonitrile fibres.
28.	146925	7-9-1977	Do	Process for the preparation of improved alloy of magnesium for use as galvanic anode.
29.	146930	11-10-1977	SAINT-GOBAIN INDUSTRIES, of 62 Boulevard, Victor-Hugo, Neuilly- Sur-Seine, France.	Method of apparatus for manufacturing a mat of fibres from thermoplastic materials.
30.	136932	8-9-1977	TEXACO DEVELOPMENT CORPORATION, of 135 East 42nd Street, New York- 10017, U.S.A.	Process for the product stream of production of cleaned and purified aqueous mixtures comprising H_2 & CO and CO-rich product gas stream.
31.	146933	15-9-1977	HOECHST AKTIENGESELSCHAFT, Of 6230 Frankfurt/Main 80, Federal Republic of Germany	Process for modifying mixtures of azo dyestuffs unstable under dyeing conditions
32.	146954	3-10-1977	PFIZER INC of 235 East 42nd Street, New York, State of New York, U.S.A.	Process for the conversion of trans-to cis N-Dimethyl-9-[3-methyl-1-Piperidyl] Propylidene thioxanthene-2. Sulfonamide and recovery of the cis-isomer.
33.	146956	17-6-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for refining molten metal.

1	2	3	4	5
34.	146961	24-11-1977	HOECHST AKTIENGESFLISCHAFT, of 6230 Frankfurt/M in 80 Federal Republic of Germany.	A dispersion of organic & inorganic solid having acidic groups on its surface and process for preparing the dispersion.
35.	146967	16-12-1977	BEHRINGWERKE AKTIENGESSELLS- CHAFT, of Marburg/Lahn, F.R.G.	A process for the production of Immuno- globulin preparations with a reduced complement activity.
36.	146986	25-3-1977	UOP INC. at Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Method of reactivating a spent liquid catalytic phthalocyanine composite.
37.	146989	9-11-1977	SHELL INTERNATIONALE RESEAR- CH MAATSCHAPPIJ B.V. of Carel van Bylandtlaan 30, The Hague, The Netherlands.	Process for the production of a hydro- carbon mixture containing 2,2,3-tri- methyl butane.
38.	147000	11-11-1977	THE GOODYEAR TYRE & RUBBER COMPANY, of 1144 East Market Street, Akron, Ohio, U.S.A.	A process for the molding of a zero pressure device.
39.	147033	8-9-1977	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Berkley Road, Bombay-20, Maharashtra, India.	Process of refining Triglyceride oils.
40.	147022	20-1-1978	UNION CARBIDE CORPORATION, at 270 Park Avenue New York, State of New York-10017, U.S.A.	Method for preparing titanium-modified silylchromate catalysts for ethylene poly- merization.
41.	147048	3-12-1977	HOECHST AKTIENGESSELLSCHAFT of 6230 Frankfurt/M in 80, Federal Republic of Germany.	Process for making stabilized Red Phos- phorus.
42.	147049	21-11-1977	SHELL INTERNATIONALE RESEAR- CH MAATSCHAPPIJ B.V. of Carel van Bylandtlaan 30, The Hague, The Netherlands.	A process for the preparation of crystal- line silicates.
43.	147052	15-1-1977	UGINE ACIERS, 10, Rue du Général Foy, 75361 Paris, Cedex 03, France.	Process for production of a boron steel having improved properties of harden- ability and toughness.
44.	147056	5-10-1977	PFIZER INC. of 235 of East 42nd Street New York, State of New York, U.S.A.	A process for the production of spiro- hydantoin compounds.
45.	147119	15-12-1977	DEUTSCHE GOLD-UND SILBER- SCHMID-UND STAHL-VERKEHRE ROESSLER & Weissfischerstrasse-9, 6000, Frankfurt I, F.R.G.	Process for the production of basic substi- tuted alkyl theophylline.
46.	147144	30-9-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017, U.S.A.	Renitrogenation of basic-oxygen steels during decarburization.
47.	147145	5-12-1977	SHOWA DENKO KABUSHIKI KAISHA, of 13-9, Shiba Dori, Minato-ku, Tokyo, Japan.	Process for preparing a ferrochromium by using blast furnace.
48.	147159	18-10-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. of Carel van Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of hydro- carbons.
49.	147196	20-4-1978	COMBUSTION ENGINEERING INC. Prospect Hill Road, Windsor Connecticut, U.S.A.	A system for producing low BTU gas in entrained flow coal gasifier.
50.	147215	5-1-1978	JOSEF HUBERT SCHICK, Mozartstrasse 10, Köln-Pech, F.R.G.	An improved process and apparatus for the microbiological production of single- cell protein using methanol base.
51.	147216	29-3-1978	NIPPON SODA COMPANY LTD. of No. 2-1, Ohtaen-chi & 2-chome, Chiyoda-ku, Tokyo, Japan.	Process for the preparation of imidazole derivatives and metal salts thereof.

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52.	147225	22-9-1977	UNION CARBIDE CORPORATION at 270 Park Avenue, New York, St New York 10017, U.S.A.	Preparation of modified and activated chromocene catalysts for ethylene poly- merization.
53.	147255	5-10-1977	FMC CORPORATION, of 200 Market Street, Philadelphia Pennsylvania 19103, U.S.A.	A process for obtaining hydrogen sulfide free steam from geothermal steam or industrial gas streams containing hydro- gen sulfide and water vapour.
54.	147264	9-3-1978	KONTIKI CHEMICALS AND PHARMACEUTICALS PVT. LTD. of A. K. House Building, Mill Road, Balipatam, Kerala State, India.	Process for the preparation of coir derivatives.
55.	147266	10-2-1978	HINDUSTAN LEVER LIMITED, of Hindustan Lever 165-166, Backbay Reclamation, Bombay-400020, Maharashtra State, India.	Deodorant detergent composition.
56.	147268	26-5-1978	HINDUSTAN CIBA-GEIGY LTD. of Arey Road, Goregaon East, Bombay- 400063, Maharashtra, India.	Process for the manufacture of 5-sub- stituted 2-4-diamine-Pyrimidines.
57.	147296	27-6-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue New York, State of New York 10017, U.S.A.	Process for low ring sulfur content of vanadium carbide materials used as additions to steel.
58.	147300	26-7-1977	ICI LTD., of Imperial Chemical House, Mill Bank, London, SW1P, England.	A set-inhibited aqueous calcium sulphate hemihydrate plaster slurry composition.
59.	147307	8-1-1979	KONTIKI CHEMICALS AND PHARMACEUTICALS (PVT.) LTD. of A.K. Office Building, Mill Road, Balipatam, Cannanore-10, Kerala State, India.	Process for preparing derivatives from coffee husks
60.	147336	11-1-1978	MIDREX CORPORATION, of one NCNB Plaza, Charlotte, North Carolina 28280, U.S.A.	Method and apparatus for reducing parti- culate iron oxide to metallic iron with solid reductant.
61.	147367	27-12-1977	HINDUSTAN LEVER LIMITED of Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-40002, Maha- rashtra, India.	A process for selective hydrogenation of polyunsaturated organic compounds.
62.	147371	1-3-1978	Do.	Fabric softening composition and process for preparing the same.
63.	147406	19-1-1978	DEUTSCHE GOLD-UND SILBER- SCHEIDANSTALT, VORMALS ROZSSLER, of 9 Weissfrauenstrasse, Frankfurt (Main) Federal Republic of Germany.	A process for the production of a mixture of 2-methyl pyridine & 3-methyl pyridine.
64.	147407	19-1-1978	Do.	A process for the production of a mixture of pyridine and 3-methyl pyridine.
65.	147418	9-3-1978	KONTIKI CHEMICALS AND PHARMACEUTICALS (PVT.) LTD. of A. K. Office Building, Mill Road, Balipatam, Kerala State, India.	A process for preparing an improved adhesive substance.
66.	147422	20-6-1978	HINDUSTAN CIBA-GEIGY LIMITED, of Arey Road, Goregaon, East, Bombay- 400063, Maharashtra, India.	Process for the production of pharma- cologically active new nitroimidazoles.
67.	147427	21-1-1978	SHIN-ETSU CHEMICAL COMPANY LTD, of 6-1, Otemachi, 2-chome Chiyoda- ku, Tokyo, Japan.	Improved method for the polymerization of vinyl monomers.
68.	147428	7-3-1979	UNION CARBIDE INDIA LTD, of 1 Middleton Street, Calcutta-700016, West Bengal, India.	A process for the selective chlorination of side chain in aromatic compounds.
69.	147429	24-1-1978	UNION CARBIDE CORPORATION. 270 Park Avenue, New York, 10017, U.S.A.	Improved hydroformylation process.

1	2	3	4	5
70.	147430	19-1-1978	DEUTSCHE GOLD-UND SILBER SCHEIDEANSTALT VORMALS ROESSLER, of 9 Weissfrauenstrasse, Frankfurt (Main), F.R.G.	Process for the production of 3-methyl pyridine.
71.	147444	28-9-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York, 10017, U.S.A.	Process for recovering solid particles of commonium decavandate from an aqueous solution thereof.
72.	147448	4-8-1978	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 B. C. B. Reclamation, Bombay-20, Maharashtra, India.	Process for improving colour and removing undesirable odour of soap.
73.	147459	2-2-1977	ARTHUR GNEUPEL, Bitziberg 5, Bachenbühlach, Switzerland.	Ozonizer.
74.	147516	6-1-1978	LADISLAV JOSEPH PIRCON, 305, Canterbury Lane, Oak Brook, Illinois, 60521, U.S.A.	Low Pressure drop heterogenous reactor and process.
75.	147546	19-10-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., C. de V. van Bylandtlaan 30, The Hague, The Netherlands.	Improvements in a process for reactivating silver catalysts.

RENEWAL FEES PAID

128668 136981 137132 137292 137617 138009 138774 139184
 139283 139906 139988 140886 141958 142345 142573 143153
 143191 143374 143521 143785 144372 144695 145049 145348
 145674 145752 145828 146370 146531 146792 147456 147467
 147531 147738 148497 149449 149664 149666 150133 150224
 150316 150365 150366 150367 150368 150388 150497 150542
 150651 150654 150736 150981 151020 151023 151124 151484
 151643 151779 151783 151893 152112 152363 152531 152568
 152576 152700 152709 152897 152906 152933 153149 153156
 153209 153210 153340 153575 153612 153650 153700 153735
 153736 153743 153744 153885 153964 153967 154103 154105

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 155374. Universal Luggage Manufacturing Company Private Limited (an Indian Company) at Shah Industrial Estate, Building "B", Saki-Vihar Road, Bombay-400 072, Maharashtra State, India. "Lock". 12th February, 1985.

Class 1. No. 155675. Ghutiwala Metal Corporation, 17/232, Jaiganj, Aligarh (U.P.) a proprietorship concern. "Scientific instrument used for Geological purposes called Geological Hammer". 15th May, 1985.

Class 1. No. 155615. Suresh Sawarmal Todi, an Indian National trading as Todi Metal Industries, having its registered office at Todi Udyog Kendra, 35, Saki-Vihar Road, Bombay 400 072, Maharashtra, India. "Tea Spoon". 1st May, 1985.

Class 3. No. 155554. Milton Plastics, a registered Indian Partnership Firm, registered under Indian Partnership Act, 1932, having Office at 202/203, Raheja

Centre, 214, Nariman Point, Bombay-400 021, Maharashtra, India. "Water Bottle (Pair)". 4th April, 1985.

Class 3. No. 155768. Ivan Nigli, sole Proprietor, trading as Bangalore Detergents, S.G. Palaya, J.B. Nagar Post, Bangalore-560 075, Karnataka, India, "a Container". 10th June, 1985.

Class 3. No. 155512. Jupiter Electronics, 94-A, D.D.A. Complex, Okhla Industrial Area-II, New Delhi-110020, Union Territory of India, India, a proprietorship concern. "Warming Or Cooling Convenience". 20th March, 1985.

Class 3. Nos. 155817, 155818, 155819, 155820. Reliance Plastic Industries, B-70 Phase II, Naraina Industrial Area, New Delhi-110 028, an Indian Partnership concern. "a Cabinet of Cassette Recorder". 8th July, 1985.

Class 3. No. 155789. Hindustan Vacuum Glass Limited, Sanskriti Bhawan, Jhandewalan, New Delhi (a company incorporated under the Indian Companies Act), "Vacuum Flask" (Thermos). 26th June, 1985.

Class 3. No. 155791. Hindustan Vacuum Glass Limited, Sanskriti Bhawan, Jhandewalan, New Delhi (a company incorporated under the Indian Companies Act), "Vacuum Flask" (Thermos). 26th June, 1985.

Class 3. No. 155560. Soniashams International, 31, Louisiana Apartment, West Avenue, Santacruz (west), Bombay 400 054, State of Maharashtra, India, an Indian Sole Proprietary Firm. "Glass". 4th April, 1985.

Class 3. No. 155619. South Indian Federation of Fishermen Societies, of Sifts Centre, Overbridge, Trivandrum-1, Kerala, India, a society registered under the Literary, Scientific and Charitable Societies Act, 1955. "a Boat". 1st May, 1985.

Class 3. No. 155620. South Indian Federation of Fishermen Societies, of Siffs Centre, Overbridge, Trivandrum-1, Kerala, India, a society registered under the Literary, Scientific and Charitable Society's Act, 1955. "Boat". 1st May, 1985.

Class 3. No. 155733. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate, Talegaon 410 507, District Pune, State of Maharashtra, India. "Vacuum Flask Refill". 30th May, 1985.

Class 5. Nos. 155661, 155662, 155663. Lion Pencils Private Limited, a company incorporated under the Provisions of Indian Companies Act, at Andrew Nagar, S. V. Road, Dahisar, Bombay-400 068, Maharashtra, India, "Carton". 13th May, 1985.

Class 5. No. 155670. Kirit Sheth, Indian National, of 44 Mint Road, Fort, Bombay-400 001, Maharashtra State, India. "Carton". 15th May, 1985.

Extn. of Copyright for the Second period of five years.

Nos. 149869, 149456, 149532,

149533, 149497, 149751, 149754

149757, 149758, 149907, 151314 **Class 1.**

Nos. 149747, 149867, 155431, 155430,

155432, 150603, 155246, 151081,

148768 **Class 3.**

Extn. of Copyright for the Third period of five years.

No. 151314 **Class 1.**

Nos. 155432, 155432, 155431, 155430,

155246, 143101. **Class 3.**

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